



2019



INOX WORLD

Stainless Steel Fasteners
and Marine Hardware





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and Marine Hardware

2019

Inox World Pty Ltd

Standard Terms & Conditions of Use

Issue date of Conditions: August 2013.

The Company is predominantly a business to business supplier. This Catalogue and any other product brochures produced by the Company are intended for use by business customers and not consumers. By ordering, the Customer confirms that he, she or it wishes to obtain the Supplies for the purposes of his, her or its business and not as a consumer, and wishes to obtain the Supplies:

(i) for the purpose of re-supply; or
(ii) for the purpose of using them up or transforming them, in trade or commerce, in the course of a process of production or manufacture, or in the course of repairing or treating other goods or fixtures on land

1. DEFINITIONS

«**Catalogue**» means the catalogue (in whatever form, whether paper or electronic) in which these Conditions are set out.

«**Company**» means Inox World Pty Ltd ABN 12 159 993 941 of 2/12 Forsyth Close, Wetherill Park, NSW, 2164, or its permitted assigns.

«**Conditions**» means these terms and conditions.

«**Contract**» means any contract between the Company and the Customer for the sale and purchase of Supplies.

«**Customer**» means the person(s) or company whose order for the Supplies is accepted by the Company.

«**Goods**» means any goods supplied or to be supplied by the Company to the Customer, and includes their packaging and any replacement goods supplied under these Conditions.

«**GST**» means goods and services tax under the A New Tax System (Goods and Services Tax) Act 1999 (Cth).

«**Services**» means any services supplied or to be supplied by the Company to the Customer, and includes any technical advice, repair or maintenance services provided by the Company or its technical representatives in connection with Goods.

«**Supplies**» means any Goods or Services.

«**in writing**» includes electronic communications. Reference in these Conditions to any legislation or regulation includes any re-enactment, amendment or substitution of such legislation or regulation.

2. CONDITIONS

All orders are accepted by the Company subject to and in accordance with the Terms and Conditions of Sale as shown on the Company website. These Conditions override and exclude any terms or conditions in or referred to in any negotiations or course of dealing between the Company and the Customer or set out in the Customer's standard terms and conditions to the fullest extent permitted by law.

3. PRICES AND GST

Prices stated in the Catalogue for Supplies are in Australian dollars, exclusive of GST or other duties or taxes and any applicable transport and handling charges, which will be added at the time of despatch. The Company has used all reasonable endeavours to ensure that prices for the Supplies are accurately set out in the Catalogue but these prices are not binding and the Company reserves the right to change its prices without notice at any time. Prices charged will be those prevailing when an order is accepted. The Company will issue a tax invoice to the Customer in relation to any supply that is subject to GST.

4. PAYMENT

Where credit terms have been approved, payment is due not later than 30 days from the date of statement, without any deductions, withholding or set off. Time for payment is of the essence. If the Customer fails to make payment by the due date then, without prejudice to any other right or remedy, the Company shall be entitled to:

(i) cancel the order or suspend any further deliveries or performance;
(ii) appropriate any payment made by the Customer to such of the Supplies (or the Supplies made under any other contract) as the Company may think fit; and
(iii) charge interest (both before and after any judgment) on the amount unpaid at the rate of 2% per annum above the Reserve Bank of Australia's published official interest rate.

5. ORDERS

The Company reserves the right to decline to trade with any company or person, or to accept orders for Supplies in part.

To avoid duplication, written confirmation of telephone orders must be clearly marked 'Confirmation only'. The Company will not accept liability for orders not so marked and duplicate orders will be charged accordingly.

Once accepted, no order may be cancelled or reduced without the prior written agreement of a director of the Company. Without limiting the generality of this, orders for Goods which are not in catalogue or non-stock items may not be cancelled.

Orders for Goods are usually accepted by the Company by despatching the Goods provided, however, that despatch will not be acceptance where the price for the Supplies has been incorrectly quoted or referenced by the Customer in its order.

Orders for certain Goods, in particular Goods which are not in catalogue or are non-stock items, may be subject to a minimum order quantity or value which the Company will use its reasonable endeavours to notify to the Customer prior to accepting its order.

6. DELIVERY

The Company will use all reasonable endeavours to despatch goods on the same day for orders placed Monday to Friday (excluding public holidays) prior to 2pm Sydney time. The Company will attempt to despatch after 2pm Sydney time where possible, however all goods not despatched same day, will be moved for despatch on the next business day provided those goods are in stock.

The Company may charge a delivery and handling cost. Any such charge will be notified to the Customer at the time of the accounts establishment or placing the order to which the charge applies. All orders "drop shipped" to a different address on behalf of the Customer will incur additional shipping charges.

7. RETURNS

Prior to returning any Goods to the Company for any reason, the Customers must contact the Company to obtain a returns authorisation number ('RAN'). All Goods are returned at the Customer's risk and expense, and should be undamaged by the Customer and in their original packaging. The Customer is responsible for returning Goods to the Company and for providing proof of delivery of such return.

The Company operates a 14 day return policy. To be accepted for return on this basis, Goods must be returned in the original condition for receipt by the Company within 14 days of delivery. The Customer must return the Goods to "The Returns Department, Inox World Distribution Centre, 2/10-12 Forsyth Close, Wetherill Park, NSW 2164" clearly quoting the Customer's account number, order number and RAN.

Any Goods returned after 14 days as 'unwanted' or 'incorrectly ordered' may be accepted at the discretion of the Company but will be subjected to a restocking fee of 25% of the invoice value of the Goods (subject to a minimum charge of \$25). Goods classified as 'not in the catalogue' or 'non-stock' or 'special order' may not be returned under this Condition.

The Company expressly reserves the right (without limiting its discretion under this condition) to refuse the cancellation of any order for, or return for credit of, Goods supplied by the Company which are not in the Catalogue, or have been notified by the Company to be special ordered items, or items that have been expressly ordered in for the Customer.

8. DESCRIPTION

All specifications, drawings, illustrations, descriptions and particulars of weights, dimensions, capacity or other details including, without limitation, any statements regarding compliance with legislation or regulation (together "Descriptions") wherever they appear (including without limitation in this Catalogue, on despatch notes, invoices or packaging) are intended to give a general idea of the Supplies, but will not form part of the Contract. If the Description of any Goods differs from the manufacturer's description, the latter shall be deemed to be correct. The Company shall take all reasonable steps to ensure the accuracy of Descriptions but relies on such information, if any, as may have been provided to it by its suppliers and to the fullest extent possible by law excludes all liability in contract or tort or under statute or otherwise for any error in or omission from such Descriptions whether caused by the Company's negligence or otherwise. The Company may make changes to the Supplies as part of a continuous programme of improvement or to comply with legislation.

9. INTELLECTUAL PROPERTY RIGHTS

The Company owns full copyright in respect of this Catalogue and its reproduction in whole or part is prohibited without the Company's prior written consent.

10. PROMOTIONS

In the event that the Company sends promotional material to the Customer in relation to goods or services available from the Company, these Conditions shall apply to all Supplies purchased from such material.

11. LEGAL CONSTRUCTION

All Contracts shall be governed by and interpreted in accordance with New South Wales law and the Customer submits to the jurisdiction of the New South Wales Courts and Courts able to hear appeals from those Courts, but the Company may enforce such Contract in any court of competent jurisdiction.

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Welcome to Inox World

The most reliable choice for all your stainless steel fastener and marine hardware

Inox World is a wholesale supplier and distributor of a wide range of stainless fasteners and hardware, poised to become a strong market leader in Australia and New Zealand. With over 10 years' experience in overseas markets and over ten thousand satisfied customers, we are confident that our knowledge, selection, and competitive pricing will quickly distinguish us from the competition. Inox World is an industry expert when it comes to stainless steel fastening products and we understand our customers' needs. From construction and heavy industry to marine and ship-building businesses, our team has the know-how and

product offerings you seek. We are confident, that regardless of your business or industry you will find what you need at the most attractive prices.

Inox World specialises in stainless steel fasteners and marine hardware of the highest quality available. Our inventory of stainless steel fasteners and marine hardware are durable, non-corrosive, non-magnetic and aesthetically compatible with almost any application. Our product range covers virtually every type of stainless steel fasteners and marine hardware from bolts, screws and nuts, to washers, rivets, wire rope and fittings. If it is not in stock, our dedicated

sales team will help you to meet your requirements. Inox World is the most reliable choice because we strive to offer:

- Market competitive prices
- Maintaining strong stock holdings to meet customers' demands
- Fast Delivery Australia wide: same day, overnight services
- We offer every client an individual approach

Contact your Inox World representative today to learn more about how Inox World can become your preferred partner and supplier of stainless steel fasteners and marine hardware.

Company History

Inox World is a fully-owned subsidiary of a leading European supplier of stainless steel fasteners. Our parent company, Best Fasteners was founded in 2003 and quickly grew to become the market leader. The company expanded its sales presence by opening additional offices across Europe. With its newly established Sydney office and expanding Australian team, Inox World and Best Fasteners are well suited, equipped and ready to become a market leader in Australia and the South Pacific.

The Inox World Commitment to Quality

The Inox World team is dedicated to providing its customers with the highest quality products. We adhere to strict levels of quality control in everything we do:

Products:

Inox World specialises in stainless steel fasteners. Stainless steel represents one of the most high quality materials available across a number of industries and a wide variety of applications. Stainless Steel is one of the most advantageous alloys for fasteners because of its durability, resistance to corrosion, high heat tolerance, aesthetic appearance and long life span. Our specialty is stainless steel fasteners

because, they are simply the best fastener available.

Shipment & Delivery:

Our warehouse and logistics teams work hard to maintain international standards and procedures for safe and clean warehousing operations and storage. We also verify every outgoing shipment with purchase orders to ensure customers receive exactly what they ordered.



Payment and Delivery

Delivery

Inox World provides prompt delivery services to both Sydney metro and outer areas. Orders for in-stock products will be delivered to our distributors twice daily for Sydney Metro and prompt services are employed for distributors outside of these areas.

We also offer a pickup service for distributors. We use a network of reliable partners to expedite orders as quickly as possible. If

you are purchasing out-of-stock material or custom orders, our sales team will give you accurate lead time and delivery information.

Payment

Trading account: Trading terms are available for our distributors who meet the required criteria.

Payments: Distributors can make payments by credit card, business cheque or EFT.

Product Index

Category	Code	Picture	Name	Page	Material	DIN/ISO	UNC	BSW
BOLTS	XHB		Hexagon Head Bolt	11-16	A2 / A4	DIN 931 / ISO 4014	ANSI / ASME B18.2.1	
	XHS		Hexagon Head Set Screw	17-23	A2 / A4	DIN 933 / ISO 4017	ANSI / ASME B18.2.1	BS1083
	XCS		Hexagon Head Coach Screw	24	A4	DIN 571		
	CHB		Cup Head Square Neck Bolt	25	A4	DIN 603 / ISO 8677		
ALLTHREAD	ATR		Threaded Rod	26-29	A2 / A4	DIN 975	IFI 136C	AS 3501
ANCHORS	SAN		Sleeve Anchor - Hex Flange Nut	30	A4	•		
	FAN		Sleeve Anchor - Flush Head	30	A4	•		
	CAN		Sleeve Anchor - Countersunk	31	A4	•		
	STA		Stud Anchor (Wedge)	31	A4	•		
	DIN		Drop In Anchor	32	A4	•		
NUTS	XNU		Hexagon Nut	33-35	A2 / A4	DIN 934 / ISO 4032	ANSI/ASME B18.6.3 & B18.2.2	BS 1083
	XLN		Hexagon Lock Nut	36-37	A2 / A4	DIN 439 / ISO 4035	ANSI/ASME B18.2.2	
	XNN		Nylon Insert Lock Nut	38-39	A2 / A4	DIN 985 / ISO 7040	IFI 100 / 107	
	XIW		Hex Inox Loch Nut - Stainless Insert	40	A2 / A4	•		
	XCN		Hexagon Cap Nut	40	A2	DIN 917		
	DNU		Dome Nut - 1 Piece	41	A2 / A4	DIN 1587	•	
	WNU		Wing Nut	42	A2 / A4	DIN 315		
	CNU		Hexagon Coupling Nut	43	A4	DIN 6334		
	XFN		Hexagon Flange Nut	44	A2 / A4	DIN 6923 / ISO 1661		
	TNU		Tee Nut 4-Prong Type	45	A2	DIN 1624	•	
WASHERS	FRW		Flat Round Washer	46-48	A2 / A4	•	•	
	FWA		Flat Round Washer	49	A2 / A4	DIN 125A / ISO 7089/7090		
	FWM		Flat Round Mudguard Washer	50	A2 / A4	DIN 9021 / ISO 7093-1		
	FWS		Flat Round Washer - Small O.D	51	A2	DIN 433 / ISO 7092		
	FSW		Flat Square Washer	51	A4	•		
	SWA		Spring Washer	52-53	A2 / A4	DIN 127B	•	
	CWA		Cup Washer	54	A2	•		
	BWA		Belleville Washer	54	A2	DIN 2093		
	CRW		Crinkle Washer	55	A2	BS 4463		
	CUW		Curved Washer	55	A2	DIN 137A		
	WAW		Wave Washer	55	A2	DIN 137B		
	ILW		Tooth Lock Washer - Internal Serrated	56	A2 / A4	DIN 6798J		
	ELW		Tooth Lock Washer - External Serrated	57	A2 / A4	DIN 6798A		

Product Index

Category	Code	Picture	Name	Page	Material	DIN/ISO	UNC	BSW
MACHINE SCREWS	CPS		Countersunk Phillips Metal Thread Screw	58-61	A2 / A4	DIN 965 / ISO 7046		BS 450
	PPS		Pan Phillips Metal Thread Screw	62-65	A2 / A4	DIN 7985 / ISO 7045		BS 450
SOCKET SCREWS	SCS		Socket Cap Screw	66-71	A2 / A4	DIN 912 / ISO 4762	ANSI / ASME B18.3	
	BCS		Button Cap Socket Screw	72-74	A2 / A4	ISO 7380	ANSI / ASME B18.3	
	CCS		Countersunk Socket Screw	75-77	A2 / A4	DIN 7991 / ISO 10642	ANSI / ASME B18.3	
	SSS		Socket Set Screw - Cup Point	78-79	A2 / A4	DIN 916 / ISO 4029		
WOOD & SELF TAPPING SCREWS	BBS		Bugle Batten Screw T17 with Ribs	80	A2 / A4	•		
	SDS		Square Drive Decking Screw T17	81	A2 / A4	•		
	SDT		Square Drive Decking Screw T17 - Trim Head	82	A2 / A4	•		
	CST		Countersunk Phillips Self Tapping Screw	83-84	A2 / A4	DIN 7928C / ISO 7050		
	PST		Pan Phillips Self Tapping Screw	85-86	A2 / A4	DIN 7981C / ISO 7049		
	CSQ		Countersunk Square Self Tapping Screw	87	A2	DIN 7982C / ISO 7050		
	PSQ		Pan Square Self Tapping Screw	88	A2	DIN 7981C / ISO 7049		
	TPS		Hex Flange Pit Screw T17	88	A2 / A4	•		
SELF-DRILLING SCREWS	XDS		Hexagon Flange Self Drilling Screw	89	A2	DIN 7504K		
	CDS		Countersunk Phillips Self Drilling Screw	90	A2	DIN 7504O		
	PDS		Pan Phillips Self Drilling Screw	91	A2	DIN 7504M		
	WDS		Wafer Phillips Self Drilling Screw	92	A2	DIN 7504N		
	DBI		Driver Bit - Square Drive	92	-	•		
PINS	RCL		R Clip	93	A2	•		
	SPI		Split Pin (Cotter Pin)	93-94	A2	DIN 94 / ISO 1234		
	LPI		Linch Pin	94	A2	•		
WIRE ROPE & BALUSTRADE	WRO		Wire Rope	95-96	A4	•		
	RSC		Rigging Screw - Jaw / Swage	97	A4	•		
	RSM		Rigging Screw Mini - Jaw / Swage	97	A4	•		
	RSS		Rigging Screw - Swage / Swage	97	A4	•		
	RMS		Rigging Screw - Machine Thread / Swage	98	A4	•		
	RLS		Rigging Screw - Lag / Swage	98	A4	•		
	RTB		Rigging Screw - Jaw / Jaw	98	A4	•		
	TJJ		Turnbuckle with Nuts - Jaw / Jaw	99	A4	•		
	TEE		Turnbuckle with Nuts - Eye / Eye	99	A4	•		
	THE		Turnbuckle with Nuts - Hook / Eye	100	A4	•		
	THH		Turnbuckle with Nuts - Hook / Hook	100	A4	•		
	FTE		Fork Terminal - Jaw / Swage	101	A4	•		

Product Index

Category	Code	Picture	Name	Page	Material	DIN/ISO	UNC	BSW
WIRE ROPE & BALUSTRADE	FTM		Fork Terminal Mini - Jaw / Swage	101	A4	•		
	STE		Swage / Stud Terminal	102	A4	•		
	LES		Lag Eye Screw	102	A4	•		
	LST		Lag Swage Terminal	103	A4	•		
	RTE		Rod Terminal	103	A4	•		
	ETE		Eye Terminal	103	A4	•		
	XST		Hex Socket Tensioner	104	A4	•		
	WES		Wire Eye Strap	104	A2 / A4	•		
	SEP		Square Eye Pad	105	A2	•		
	REP		Round Eye Pad	105	A4	•		
	DEP		Diamond Eye Pad	105	A4	•		
	DTS		Double Thread Screw - Lag / Machine	106	A4	•		
	NPS		Nickel Plated Copper Ferrule	106	-	•		
	NGR		Nylon Grommet - Split	106	-	•		
	CTI		Countersunk Timber Insert	107	A4	•		
	CPW		Cable Pivot Washer	107	A4	•		
	MEB		Mini Eye Bolt	107	A4	•		
	RNS		Rivet Nut - Small Flange	108	A2	•		
	RNL		Rivet Nut - Large Flange	108	A2	•		
	WRG		Wire Rope Grip	109	A4	•		
	WRT		Wire Rope Thimble	109	A4	•		
HARDWARE	EBO		Eye Bolt with Nut and Washers	110	A2	•		
	EBO		Collared Eye Bolt	110	A4	DIN 580		
	EBJ		Collared Eye Bolt	111	A4	JIS B 1168		
	LEN		Collared Eye Nut	111	A4	DIN 582		
	LEJ		Collared Eye Nut	112	A4	JIS B 1169		
	UBO		U Bolt with Nuts, Washers & Plate	112	A2	•		
	UBO		U Bolt with Nuts	113	A4	•		
	SH0		Spring Hook	113	A4	•		
	SHE		Spring Hook with Eye	114	A4	•		
	SH2		Asymmetric Snap Hook	114	A4	•		
	SSH		Spring Snap Hook Cast	114	A4	•		
	SSB		Swivel Snap Bolt	115	A2	•		
	SH3		S Hook - Long Arm	115	A2	•		

Product Index

Category	Code	Picture	Name	Page	Material	DIN/ISO	UNC	BSW
HARDWARE	SH4		S Hook - Symmetrical	115	A2	•		
	PHO		Pelican Hook	116	A4	•		
	CSL		Short Link Chain	116	A2 / A4	DIN 766		
	CML		Medium Link Chain	117	A4	•		
	CLI		C Link	117	A4	•		
	QLI		Quick Link	117	A4	•		
	DSH		D Shackle	118	A4	•		
	DSL		D Shackle - Long	118	A4	•		
	DSC		D Shackle with Captive Pin	119	A4	•		
	DSW		D Shackle - Wide Mouth	119	A4	•		
	BSH		Bow Shackle	120	A4	•		
	TSH		Twist Shackle	120	A4	•		
	SSH		Strap Shackle	121	A2	•		
	SEE		Swivel - Eye / Eye	121	A4	•		
	SJJ		Swivel - Jaw / Jaw	121	A4	•		
	SJE		Swivel - Jaw / Eye	122	A4	•		
	DRT		D Ring Thimble	122	A4	•		
	RRI		Round Ring - Welded	123	A4	•		
	DRI		D Ring - Welded	123	A4	•		
	TRI		Triangle Ring - Welded	124	A4	•		
	HCW		Hose Clamp Worm Drive	124	A2	DIN 3017		
	PHI		Piano Hinge - Undrilled	125	A2	•		
	PHI		Piano Hinge - Drilled	125	A2	•		
	RIV		Blind Rivets	126	A2 / A4	•		
	RIL		Large Flange Rivets	127	A2	•		
	RIC		Countersunk Rivets	127	A2	•		
	TLA		Toggle Latch	128	A2	•		
	AHO		Anchor Hooks	128	A4	•		
	MBL		Mame Block - Single Nylon Sheave	129	A2	•		
	MBL		Mame Block - Double Nylon Sheave	129	A2	•		
	MBL		Mame Block - Single Stainless Sheave	129	A2	•		

INOX

PRODUCT CATALOGUE



A2

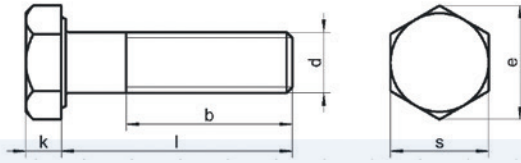
304

Hexagon Head Bolt

DIN 931 ISO 4014

METRIC

XHB



b for L ≤ 125mm		18.00	22.00	26.00	30.00	38.00	46.00	54.00
b for L ≥ 125-200mm		24.00	28.00	32.00	36.00	44.00	52.00	60.00
s nom.		10.00	13.00	17.00	19.00	24.00	30.00	36.00
k nom.		4.00	5.30	6.40	7.50	10.00	12.50	15.00
e min.		11.05	14.38	18.90	21.10	26.75	33.53	39.98
Length (l)	Size (d)	M6	M8	M10	M12	M16	M20	M24
30	Part Number	XHBA2M6X30	XHBA2M8X30					
	Std Pack	100	100					
35	Part Number	XHBA2M6X35	XHBA2M8X35	XHBA2M10X35				
	Std Pack	100	100	100				
40	Part Number	XHBA2M6X40	XHBA2M8X40	XHBA2M10X40	XHBA2M12X40			
	Std Pack	100	100	100	50			
45	Part Number	XHBA2M6X45	XHBA2M8X45	XHBA2M10X45	XHBA2M12X45			
	Std Pack	100	100	100	50			
50	Part Number	XHBA2M6X50	XHBA2M8X50	XHBA2M10X50	XHBA2M12X50	XHBA2M16X50		
	Std Pack	100	100	100	25	25		
55	Part Number	XHBA2M6X55	XHBA2M8X55	XHBA2M10X55	XHBA2M12X55	XHBA2M16X55		
	Std Pack	50	50	50	25	25		
60	Part Number	XHBA2M6X60	XHBA2M8X60	XHBA2M10X60	XHBA2M12X60	XHBA2M16X60	XHBA2M20X60	
	Std Pack	50	50	50	25	25	25	
65	Part Number	XHBA2M6X65	XHBA2M8X65	XHBA2M10X65	XHBA2M12X65	XHBA2M16X65	XHBA2M20X65	
	Std Pack	50	50	50	25	25	25	
70	Part Number	XHBA2M6X70	XHBA2M8X70	XHBA2M10X70	XHBA2M12X70	XHBA2M16X70	XHBA2M20X70	XHBA2M24X70
	Std Pack	50	50	50	25	25	25	10
75	Part Number	XHBA2M6X75	XHBA2M8X75	XHBA2M10X75	XHBA2M12X75	XHBA2M16X75	XHBA2M20X75	XHBA2M24X75
	Std Pack	50	50	50	25	25	20	10
80	Part Number	XHBA2M6X80	XHBA2M8X80	XHBA2M10X80	XHBA2M12X80	XHBA2M16X80	XHBA2M20X80	XHBA2M24X80
	Std Pack	50	50	50	25	25	20	10
90	Part Number	XHBA2M6X90	XHBA2M8X90	XHBA2M10X90	XHBA2M12X90	XHBA2M16X90	XHBA2M20X90	XHBA2M24X90
	Std Pack	50	50	50	25	25	10	10
100	Part Number	XHBA2M6X100	XHBA2M8X100	XHBA2M10X100	XHBA2M12X100	XHBA2M16X100	XHBA2M20X100	XHBA2M24X100
	Std Pack	50	50	50	25	25	10	10
110	Part Number	XHBA2M6X110	XHBA2M8X110	XHBA2M10X110	XHBA2M12X110	XHBA2M16X110	XHBA2M20X110	XHBA2M24X110
	Std Pack	50	25	25	25	25	10	10
120	Part Number	XHBA2M6X120	XHBA2M8X120	XHBA2M10X120	XHBA2M12X120	XHBA2M16X120	XHBA2M20X120	XHBA2M24X120
	Std Pack	50	25	25	25	25	10	10
130	Part Number	XHBA2M6X130	XHBA2M8X130	XHBA2M10X130	XHBA2M12X130	XHBA2M16X130	XHBA2M20X130	XHBA2M24X130
	Std Pack	50	25	25	25	20	10	10
140	Part Number	XHBA2M6X140	XHBA2M8X140	XHBA2M10X140	XHBA2M12X140	XHBA2M16X140	XHBA2M20X140	XHBA2M24X140
	Std Pack	50	25	25	25	20	10	10
150	Part Number	XHBA2M6X150	XHBA2M8X150	XHBA2M10X150	XHBA2M12X150	XHBA2M16X150	XHBA2M20X150	XHBA2M24X150
	Std Pack	50	25	25	25	20	10	10
160	Part Number			XHBA2M10X160	XHBA2M12X160	XHBA2M16X160	XHBA2M20X160	XHBA2M24X160
	Std Pack			25	25	20	10	10
170	Part Number			XHBA2M10X170	XHBA2M12X170	XHBA2M16X170	XHBA2M20X170	XHBA2M24X170
	Std Pack			25	25	10	10	10
180	Part Number			XHBA2M10X180	XHBA2M12X180	XHBA2M16X180	XHBA2M20X180	XHBA2M24X180
	Std Pack			25	25	10	10	10
200	Part Number			XHBA2M10X200	XHBA2M12X200	XHBA2M16X200	XHBA2M20X200	XHBA2M24X200
	Std Pack			25	25	10	10	10

All measurements are in mm

XHB

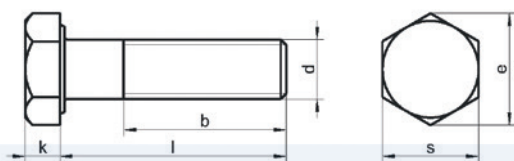
Hexagon Head Bolt

DIN 931 ISO 4014

METRIC

A4

316



b for L ≤ 125mm	18.00	22.00	26.00	30.00	34.00	38.00	42.00
b for L ≥ 125-200mm	24.00	28.00	32.00	36.00	40.00	44.00	48.00
b for L ≥ 200mm	-	-	45.00	49.00	53.00	57.00	61.00
s nom.	10.00	13.00	17.00	19.00	22.00	24.00	27.00
k nom.	4.00	5.30	6.40	7.50	8.80	10.00	11.50
e min.	11.05	14.38	18.90	21.10	24.49	26.75	30.14

Length (l)	Size (d)	M6	M8	M10	M12	M14	M16	M18
30	Part Number	XHBA4M6X30						
	Std Pack	100						
35	Part Number	XHBA4M6X35	XHBA4M8X35					
	Std Pack	100	100					
40	Part Number	XHBA4M6X40	XHBA4M8X40	XHBA4M10X40	XHBA4M12X40			
	Std Pack	100	100	100	50			
45	Part Number	XHBA4M6X45	XHBA4M8X45	XHBA4M10X45	XHBA4M12X45			
	Std Pack	100	100	100	50			
50	Part Number	XHBA4M6X50	XHBA4M8X50	XHBA4M10X50	XHBA4M12X50	XHBA4M14X50	XHBA4M16X50	
	Std Pack	100	100	100	25	25	25	
55	Part Number	XHBA4M6X55	XHBA4M8X55	XHBA4M10X55	XHBA4M12X55	XHBA4M14X55	XHBA4M16X55	
	Std Pack	50	50	50	25	25	25	
60	Part Number	XHBA4M6X60	XHBA4M8X60	XHBA4M10X60	XHBA4M12X60	XHBA4M14X60	XHBA4M16X60	XHBA4M18X60
	Std Pack	50	50	50	25	25	25	25
65	Part Number	XHBA4M6X65	XHBA4M8X65	XHBA4M10X65	XHBA4M12X65	XHBA4M14X65	XHBA4M16X65	XHBA4M18X65
	Std Pack	50	50	50	25	25	25	25
70	Part Number	XHBA4M6X70	XHBA4M8X70	XHBA4M10X70	XHBA4M12X70	XHBA4M14X70	XHBA4M16X70	XHBA4M18X70
	Std Pack	50	50	50	25	25	25	25
75	Part Number	XHBA4M6X75	XHBA4M8X75	XHBA4M10X75	XHBA4M12X75	XHBA4M14X75	XHBA4M16X75	XHBA4M18X75
	Std Pack	50	50	50	25	25	25	25
80	Part Number	XHBA4M6X80	XHBA4M8X80	XHBA4M10X80	XHBA4M12X80	XHBA4M14X80	XHBA4M16X80	XHBA4M18X80
	Std Pack	50	50	50	25	25	25	25
85	Part Number						XHBA4M16X85	
	Std Pack						25	
90	Part Number	XHBA4M6X90	XHBA4M8X90	XHBA4M10X90	XHBA4M12X90	XHBA4M14X90	XHBA4M16X90	XHBA4M18X90
	Std Pack	50	50	50	25	25	25	25
100	Part Number	XHBA4M6X100	XHBA4M8X100	XHBA4M10X100	XHBA4M12X100	XHBA4M14X100	XHBA4M16X100	XHBA4M18X100
	Std Pack	50	50	50	25	25	25	25
110	Part Number	XHBA4M6X110	XHBA4M8X110	XHBA4M10X110	XHBA4M12X110	XHBA4M14X110	XHBA4M16X110	XHBA4M18X110
	Std Pack	25	25	25	25	25	25	25
120	Part Number	XHBA4M6X120	XHBA4M8X120	XHBA4M10X120	XHBA4M12X120	XHBA4M14X120	XHBA4M16X120	XHBA4M18X120
	Std Pack	25	25	25	25	25	25	25
130	Part Number	XHBA4M6X130	XHBA4M8X130	XHBA4M10X130	XHBA4M12X130	XHBA4M14X130	XHBA4M16X130	XHBA4M18X130
	Std Pack	25	25	25	25	25	20	25
140	Part Number	XHBA4M6X140	XHBA4M8X140	XHBA4M10X140	XHBA4M12X140	XHBA4M14X140	XHBA4M16X140	XHBA4M18X140
	Std Pack	25	25	25	25	25	20	25
150	Part Number	XHBA4M6X150	XHBA4M8X150	XHBA4M10X150	XHBA4M12X150	XHBA4M14X150	XHBA4M16X150	XHBA4M18X150
	Std Pack	25	25	25	25	25	20	25
160	Part Number			XHBA4M10X160	XHBA4M12X160		XHBA4M16X160	
	Std Pack			25	25		20	
170	Part Number			XHBA4M10X170	XHBA4M12X170		XHBA4M16X170	
	Std Pack			25	25		20	
180	Part Number			XHBA4M10X180	XHBA4M12X180		XHBA4M16X180	
	Std Pack			25	25		10	
200	Part Number			XHBA4M10X200	XHBA4M12X200		XHBA4M16X200	
	Std Pack			25	25		10	
210	Part Number				XHBA4M12X210		XHBA4M16X210	
	Std Pack				10		10	
220	Part Number			XHBA4M10X220	XHBA4M12X220		XHBA4M16X220	
	Std Pack			10	10		10	
230	Part Number				XHBA4M12X230		XHBA4M16X230	
	Std Pack				10		10	
240	Part Number			XHBA4M10X240	XHBA4M12X240		XHBA4M16X240	
	Std Pack			10	10		10	
250	Part Number			XHBA4M10X250	XHBA4M12X250		XHBA4M16X250	
	Std Pack			10	10		10	
260	Part Number			XHBA4M10X260	XHBA4M12X260		XHBA4M16X260	
	Std Pack			10	10		10	
280	Part Number			XHBA4M10X280	XHBA4M12X280		XHBA4M16X280	
	Std Pack			10	10		10	
300	Part Number			XHBA4M10X300	XHBA4M12X300		XHBA4M16X300	
	Std Pack			10	10		10	

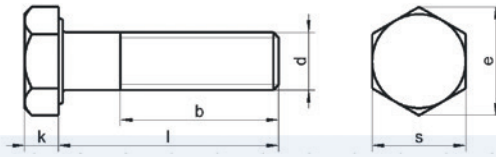
All measurements are in mm

A4**316**

Hexagon Head Bolt

DIN 931 ISO 4014

METRIC

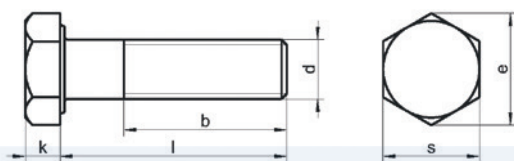
XHB

b for L ≤ 125mm	46.00	50.00	54.00	60.00	66.00	72.00	78.00	
b for L ≥ 125–200mm	52.00	56.00	60.00	66.00	72.00	78.00	84.00	
b for L ≥ 200mm	65.00	69.00	73.00	79.00	85.00	91.00	97.00	
s nom.	30.00	32.00	36.00	41.00	46.00	50.00	55.00	
k nom.	12.50	14.00	15.00	17.00	18.70	21.00	22.50	
e min.	33.53	35.72	39.98	45.20	50.85	55.37	60.79	
Length (l)	Size (d)	M20	M22	M24	M27	M30	M33	M36
30	Part Number							
	Std Pack							
35	Part Number							
	Std Pack							
40	Part Number							
	Std Pack							
45	Part Number							
	Std Pack							
50	Part Number							
	Std Pack							
55	Part Number							
	Std Pack							
60	Part Number	XHBA4M20X60						
	Std Pack	25						
65	Part Number	XHBA4M20X65						
	Std Pack	25						
70	Part Number	XHBA4M20X70		XHBA4M24X70				
	Std Pack	25		10				
75	Part Number	XHBA4M20X75	XHBA4M22X75	XHBA4M24X75	XHBA4M27X75			
	Std Pack	20	10	10	5			
80	Part Number	XHBA4M20X80	XHBA4M22X80	XHBA4M24X80	XHBA4M27X80	XHBA4M30X80		
	Std Pack	20	10	10	5	5		
85	Part Number	XHBA4M20X85		XHBA4M24X85				
	Std Pack	10		10				
90	Part Number	XHBA4M20X90	XHBA4M22X90	XHBA4M24X90	XHBA4M27X90	XHBA4M30X90	XHBA4M33X90	
	Std Pack	10	10	10	5	5	1	
100	Part Number	XHBA4M20X100	XHBA4M22X100	XHBA4M24X100	XHBA4M27X100	XHBA4M30X100	XHBA4M33X100	XHBA4M36X100
	Std Pack	10	10	10	5	5	1	1
110	Part Number	XHBA4M20X110	XHBA4M22X110	XHBA4M24X110	XHBA4M27X110	XHBA4M30X110	XHBA4M33X110	XHBA4M36X110
	Std Pack	10	10	10	5	5	1	1
120	Part Number	XHBA4M20X120	XHBA4M22X120	XHBA4M24X120	XHBA4M27X120	XHBA4M30X120	XHBA4M33X120	XHBA4M36X120
	Std Pack	10	10	10	5	5	1	1
130	Part Number	XHBA4M20X130	XHBA4M22X130	XHBA4M24X130	XHBA4M27X130	XHBA4M30X130	XHBA4M33X130	XHBA4M36X130
	Std Pack	10	10	10	5	5	1	1
140	Part Number	XHBA4M20X140	XHBA4M22X140	XHBA4M24X140	XHBA4M27X140	XHBA4M30X140	XHBA4M33X140	XHBA4M36X140
	Std Pack	10	10	10	5	5	1	1
150	Part Number	XHBA4M20X150	XHBA4M22X150	XHBA4M24X150	XHBA4M27X150	XHBA4M30X150	XHBA4M33X150	XHBA4M36X150
	Std Pack	10	10	10	5	5	1	1
160	Part Number	XHBA4M20X160		XHBA4M24X160	XHBA4M27X160	XHBA4M30X160	XHBA4M33X160	XHBA4M36X160
	Std Pack	10		10	5	5	1	1
170	Part Number	XHBA4M20X170		XHBA4M24X170	XHBA4M27X170	XHBA4M30X170	XHBA4M33X170	XHBA4M36X170
	Std Pack	10		10	5	5	1	1
180	Part Number	XHBA4M20X180		XHBA4M24X180	XHBA4M27X180	XHBA4M30X180	XHBA4M33X180	XHBA4M36X180
	Std Pack	10		10	5	5	1	1
200	Part Number	XHBA4M20X200		XHBA4M24X200	XHBA4M27X200	XHBA4M30X200	XHBA4M33X200	XHBA4M36X200
	Std Pack	10		10	5	5	1	1
210	Part Number	XHBA4M20X210		XHBA4M24X210				
	Std Pack	10		10				
220	Part Number	XHBA4M20X220		XHBA4M24X220	XHBA4M27X220	XHBA4M30X220	XHBA4M33X220	XHBA4M36X220
	Std Pack	10		10	5	5	1	1
230	Part Number	XHBA4M20X230		XHBA4M24X230				
	Std Pack	10		10				
240	Part Number	XHBA4M20X240		XHBA4M24X240	XHBA4M27X240	XHBA4M30X240	XHBA4M33X240	XHBA4M36X240
	Std Pack	10		10	5	5	1	1
250	Part Number	XHBA4M20X250		XHBA4M24X250	XHBA4M27X250	XHBA4M30X250	XHBA4M33X250	XHBA4M36X250
	Std Pack	10		10	5	5	1	1
260	Part Number	XHBA4M20X260		XHBA4M24X260	XHBA4M27X260	XHBA4M30X260	XHBA4M33X260	XHBA4M36X260
	Std Pack	10		10	5	5	1	1
280	Part Number	XHBA4M20X280		XHBA4M24X280	XHBA4M27X280	XHBA4M30X280	XHBA4M33X280	XHBA4M36X280
	Std Pack	10		10	5	5	1	1
300	Part Number	XHBA4M20X300		XHBA4M24X300	XHBA4M27X300	XHBA4M30X300	XHBA4M33X300	XHBA4M36X300
	Std Pack	10		10	5	5	1	1
350	Part Number	XHBA4M20X350		XHBA4M24X350				
	Std Pack	5		5				
400	Part Number	XHBA4M20X400		XHBA4M24X400				
	Std Pack	5		5				

All measurements are in mm

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s max.		0.44	0.50	0.56	0.63	0.75	0.94	1.13
k max.		0.16	0.21	0.24	0.29	0.32	0.40	0.48
e max.		0.51	0.58	0.65	0.72	0.87	1.08	1.30
Length (l)	Size (d)	1/4	5/16	3/8	7/16	1/2	5/8	3/4
1 1/4	Part Number	XHBA214UNCX114						
	Std Pack	100						
1 1/2	Part Number	XHBA214UNCX112	XHBA2516UNCX112	XHBA238UNCX112				
	Std Pack	100	100	100				
1 3/4	Part Number	XHBA214UNCX134	XHBA2516UNCX134	XHBA238UNCX134		XHBA212UNCX134		
	Std Pack	100	100	100		50		
2	Part Number	XHBA214UNCX2	XHBA2516UNCX2	XHBA238UNCX2	XHBA2716UNCX2	XHBA212UNCX2	XHBA258UNCX2	
	Std Pack	100	100	100	50	50	25	
2 1/4	Part Number	XHBA214UNCX214	XHBA2516UNCX214	XHBA238UNCX214		XHBA212UNCX214	XHBA258UNCX214	
	Std Pack	50	50	50		25	25	
2 1/2	Part Number	XHBA214UNCX212	XHBA2516UNCX212	XHBA238UNCX212	XHBA2716UNCX212	XHBA212UNCX212	XHBA258UNCX212	XHBA234UNCX212
	Std Pack	50	50	50	25	25	25	25
3	Part Number	XHBA214UNCX3	XHBA2516UNCX3	XHBA238UNCX3	XHBA2716UNCX3	XHBA212UNCX3	XHBA258UNCX3	XHBA234UNCX3
	Std Pack	50	50	50	25	25	25	20
3 1/2	Part Number	XHBA214UNCX312	XHBA2516UNCX312	XHBA238UNCX312	XHBA2716UNCX312	XHBA212UNCX312	XHBA258UNCX312	XHBA234UNCX312
	Std Pack	50	50	50	25	25	25	10
4	Part Number	XHBA214UNCX4	XHBA2516UNCX4	XHBA238UNCX4	XHBA2716UNCX4	XHBA212UNCX4	XHBA258UNCX4	XHBA234UNCX4
	Std Pack	50	50	50	25	25	25	10
4 1/2	Part Number	XHBA214UNCX412	XHBA2516UNCX412	XHBA238UNCX412		XHBA212UNCX412	XHBA258UNCX412	XHBA234UNCX412
	Std Pack	50	25	25		25	25	10
5	Part Number	XHBA214UNCX5	XHBA2516UNCX5	XHBA238UNCX5		XHBA212UNCX5	XHBA258UNCX5	XHBA234UNCX5
	Std Pack	50	25	25		25	20	10
5 1/2	Part Number	XHBA214UNCX512	XHBA2516UNCX512	XHBA238UNCX512		XHBA212UNCX512	XHBA258UNCX512	XHBA234UNCX512
	Std Pack	50	25	25		25	20	10
6	Part Number	XHBA214UNCX6	XHBA2516UNCX6	XHBA238UNCX6		XHBA212UNCX6	XHBA258UNCX6	XHBA234UNCX6
	Std Pack	50	25	25		25	20	10

All measurements are in inches

Did you know?

Stainless Steel is a soft metal (sort of)

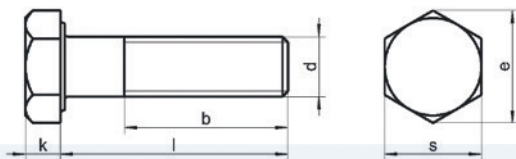
Stainless steel is considered a soft metal meaning it is not great for many high load applications that require intense strength. However, certain grades are hardened to create a stronger version. It may affect the corrosion resistance of the fastener. A classic example of this is Grade A4-70 and A4-80.

A4**316**

Hexagon Head Bolt

ANSI / ASME B18.2.1

UNC

XHB

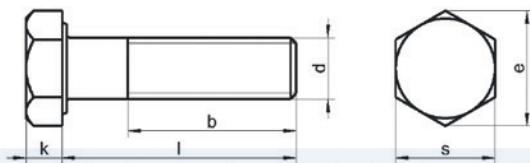
s max.		0.44	0.50	0.56	0.63	0.75
k max.		0.16	0.21	0.24	0.29	0.32
e max.		0.51	0.58	0.65	0.72	0.87
Length (l)	Size (d)	1/4	5/16	3/8	7/16	1/2
1 1/4	Part Number	XHBA414UNCX114				
	Std Pack	100				
1 1/2	Part Number	XHBA414UNCX112	XHBA4516UNCX112	XHBA438UNCX112		
	Std Pack	100	100	100		
1 3/4	Part Number	XHBA414UNCX134	XHBA4516UNCX134	XHBA438UNCX134	XHBA4716UNCX134	XHBA412UNCX134
	Std Pack	100	100	100	50	50
2	Part Number	XHBA414UNCX2	XHBA4516UNCX2	XHBA438UNCX2	XHBA4716UNCX2	XHBA412UNCX2
	Std Pack	100	100	100	50	50
2 1/4	Part Number	XHBA414UNCX214	XHBA4516UNCX214	XHBA438UNCX214		XHBA412UNCX214
	Std Pack	50	50	50		25
2 1/2	Part Number	XHBA414UNCX212	XHBA4516UNCX212	XHBA438UNCX212	XHBA4716UNCX212	XHBA412UNCX212
	Std Pack	50	50	50	25	25
3	Part Number	XHBA414UNCX3	XHBA4516UNCX3	XHBA438UNCX3	XHBA4716UNCX3	XHBA412UNCX3
	Std Pack	50	50	50	25	25
3 1/2	Part Number	XHBA414UNCX312	XHBA4516UNCX312	XHBA438UNCX312	XHBA4716UNCX312	XHBA412UNCX312
	Std Pack	50	50	50	25	25
4	Part Number	XHBA414UNCX4	XHBA4516UNCX4	XHBA438UNCX4	XHBA4716UNCX4	XHBA412UNCX4
	Std Pack	50	50	50	25	25
4 1/2	Part Number	XHBA414UNCX412	XHBA4516UNCX412	XHBA438UNCX412		XHBA412UNCX412
	Std Pack	50	25	25		25
5	Part Number	XHBA414UNCX5	XHBA4516UNCX5	XHBA438UNCX5		XHBA412UNCX5
	Std Pack	50	25	25		25
5 1/2	Part Number	XHBA414UNCX512	XHBA4516UNCX512	XHBA438UNCX512		XHBA412UNCX512
	Std Pack	50	25	25		25
6	Part Number	XHBA414UNCX6	XHBA4516UNCX6	XHBA438UNCX6		XHBA412UNCX6
	Std Pack	50	25	25		25
7	Part Number			XHBA438UNCX7		XHBA412UNCX7
	Std Pack			25		25
8	Part Number			XHBA438UNCX8		XHBA412UNCX8
	Std Pack			25		25

All measurements are in inches

Did you know?

Stainless Steel is not magnetic

In stainless fasteners, 300 series stainless is non-magnetic in its raw condition. Cold working it (making the parts) can sometimes cause traces of magnetism in 300 series. An increase in magnetism is caused by the heat and friction of cold forming and does not reduce corrosion resistance. 400 series are magnetic because of its high carbon content.



	s max.	0.94	1.13	1.31	1.50
	k max.	0.40	0.48	0.56	0.63
	e max.	1.08	1.30	1.52	1.73
Length (l)	Size (d)	5/8	3/4	7/8	1
1 1/4	Part Number				
	Std Pack				
1 1/2	Part Number				
	Std Pack				
1 3/4	Part Number				
	Std Pack				
2	Part Number	XHBA458UNCX2			
	Std Pack	25			
2 1/4	Part Number	XHBA458UNCX214			
	Std Pack	25			
2 1/2	Part Number	XHBA458UNCX212	XHBA434UNCX212		
	Std Pack	25	25		
3	Part Number	XHBA458UNCX3	XHBA434UNCX3	XHBA478UNCX3	XHBA41UNCX3
	Std Pack	25	20	10	10
3 1/2	Part Number	XHBA458UNCX312	XHBA434UNCX312	XHBA478UNCX312	XHBA41UNCX312
	Std Pack	25	10	10	10
4	Part Number	XHBA458UNCX4	XHBA434UNCX4	XHBA478UNCX4	XHBA41UNCX4
	Std Pack	25	10	10	10
4 1/2	Part Number	XHBA458UNCX412	XHBA434UNCX412	XHBA478UNCX412	XHBA41UNCX412
	Std Pack	25	10	10	10
5	Part Number	XHBA458UNCX5	XHBA434UNCX5	XHBA478UNCX5	XHBA41UNCX5
	Std Pack	20	10	10	10
5 1/2	Part Number	XHBA458UNCX512	XHBA434UNCX512	XHBA478UNCX512	XHBA41UNCX512
	Std Pack	20	10	10	10
6	Part Number	XHBA458UNCX6	XHBA434UNCX6	XHBA478UNCX6	XHBA41UNCX6
	Std Pack	20	10	10	10
7	Part Number	XHBA458UNCX7	XHBA434UNCX7	XHBA478UNCX7	XHBA41UNCX7
	Std Pack	20	10	10	10
8	Part Number	XHBA458UNCX8	XHBA434UNCX8	XHBA478UNCX8	XHBA41UNCX8
	Std Pack	20	10	10	10

All measurements are in inches

Did you know?

Stainless Steel reacts negatively with aluminium

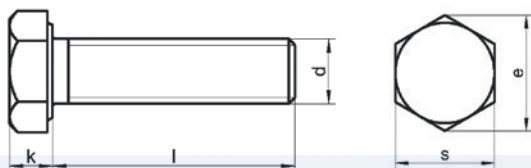
Stainless Steel and Aluminium are two separate kinds of metal. One is positively charged (anode) and one is negatively charged (cathode). As these metals are connected and an electrolyte is introduced, such as saltwater, a transfer of electrons occurs which will ruin the integrity of the materials resulting in galvanic corrosion. To avoid these situations either use some sort of in-between like a rubber material or simply do not use them together (recommended).

A2**304**

Hexagon Head Set Screw

DIN 933 ISO 4017

METRIC

XHS

s nom.		5.50	7.00	8.00	10.00	13.00	17.00
k nom.		2.00	2.80	3.50	4.00	5.30	6.40
e min.		6.01	7.66	8.79	11.05	14.38	18.9
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10
8	Part Number	XHSA2M3X8	XHSA2M4X8	XHSA2M5X8	XHSA2M6X8		
	Std Pack	100	100	100	100		
10	Part Number	XHSA2M3X10	XHSA2M4X10	XHSA2M5X10	XHSA2M6X10	XHSA2M8X10	
	Std Pack	100	100	100	100	100	
12	Part Number	XHSA2M3X12	XHSA2M4X12	XHSA2M5X12	XHSA2M6X12	XHSA2M8X12	
	Std Pack	100	100	100	100	100	
16	Part Number	XHSA2M3X16	XHSA2M4X16	XHSA2M5X16	XHSA2M6X16	XHSA2M8X16	XHSA2M10X16
	Std Pack	100	100	100	100	100	100
20	Part Number	XHSA2M3X20	XHSA2M4X20	XHSA2M5X20	XHSA2M6X20	XHSA2M8X20	XHSA2M10X20
	Std Pack	100	100	100	100	100	100
25	Part Number	XHSA2M3X25	XHSA2M4X25	XHSA2M5X25	XHSA2M6X25	XHSA2M8X25	XHSA2M10X25
	Std Pack	100	100	100	100	100	100
30	Part Number	XHSA2M3X30	XHSA2M4X30	XHSA2M5X30	XHSA2M6X30	XHSA2M8X30	XHSA2M10X30
	Std Pack	100	100	100	100	100	100
35	Part Number		XHSA2M4X35	XHSA2M5X35	XHSA2M6X35	XHSA2M8X35	XHSA2M10X35
	Std Pack		100	100	100	100	100
40	Part Number		XHSA2M4X40	XHSA2M5X40	XHSA2M6X40	XHSA2M8X40	XHSA2M10X40
	Std Pack		100	100	100	100	100
45	Part Number			XHSA2M5X45	XHSA2M6X45	XHSA2M8X45	XHSA2M10X45
	Std Pack			100	100	100	100
50	Part Number		XHSA2M4X50	XHSA2M5X50	XHSA2M6X50	XHSA2M8X50	XHSA2M10X50
	Std Pack		100	100	100	100	100
55	Part Number			XHSA2M5X55	XHSA2M6X55	XHSA2M8X55	XHSA2M10X55
	Std Pack			100	50	50	50
60	Part Number			XHSA2M5X60	XHSA2M6X60	XHSA2M8X60	XHSA2M10X60
	Std Pack			100	50	50	50
65	Part Number				XHSA2M6X65	XHSA2M8X65	XHSA2M10X65
	Std Pack				50	50	50
70	Part Number				XHSA2M6X70	XHSA2M8X70	XHSA2M10X70
	Std Pack				50	50	50
75	Part Number				XHSA2M6X75	XHSA2M8X75	XHSA2M10X75
	Std Pack				50	50	50
80	Part Number				XHSA2M6X80	XHSA2M8X80	XHSA2M10X80
	Std Pack				50	50	50
90	Part Number				XHSA2M6X90	XHSA2M8X90	XHSA2M10X90
	Std Pack				100	50	50
100	Part Number				XHSA2M6X100	XHSA2M8X100	XHSA2M10X100
	Std Pack				50	50	50
110	Part Number					XHSA2M8X110	XHSA2M10X110
	Std Pack					25	25
120	Part Number					XHSA2M8X120	XHSA2M10X120
	Std Pack					25	25
130	Part Number					XHSA2M8X130	XHSA2M10X130
	Std Pack					25	25
140	Part Number					XHSA2M8X140	XHSA2M10X140
	Std Pack					25	25
150	Part Number					XHSA2M8X150	XHSA2M10X150
	Std Pack					25	25

All measurements are in mm

XHS

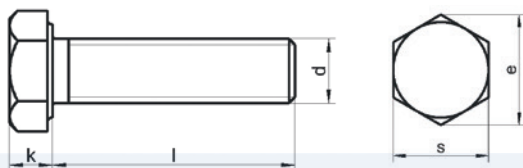
Hexagon Head Set Screw

A2

304

DIN 933 ISO 4017

METRIC



s nom.		19.00	22.00	24.00	30.00	36.00
k nom.		7.50	8.80	10.00	12.50	15.00
e min.		21.10	24.49	26.75	33.53	39.98
Length (l)	Size (d)	M12	M14	M16	M20	M24
8	Part Number					
	Std Pack					
10	Part Number					
	Std Pack					
12	Part Number					
	Std Pack					
16	Part Number					
	Std Pack					
20	Part Number	XHSA2M12X20				
	Std Pack	100				
25	Part Number	XHSA2M12X25	XHSA2M14X25	XHSA2M16X25		
	Std Pack	100	25	25		
30	Part Number	XHSA2M12X30	XHSA2M14X30	XHSA2M16X30	XHSA2M20X30	
	Std Pack	100	25	25	25	
35	Part Number	XHSA2M12X35	XHSA2M14X35	XHSA2M16X35	XHSA2M20X35	
	Std Pack	100	25	25	25	
40	Part Number	XHSA2M12X40	XHSA2M14X40	XHSA2M16X40	XHSA2M20X40	XHSA2M24X40
	Std Pack	50	25	25	25	10
45	Part Number	XHSA2M12X45	XHSA2M14X45	XHSA2M16X45	XHSA2M20X45	XHSA2M24X45
	Std Pack	50	25	25	25	10
50	Part Number	XHSA2M12X50	XHSA2M14X50	XHSA2M16X50	XHSA2M20X50	XHSA2M24X50
	Std Pack	50	25	25	25	10
55	Part Number	XHSA2M12X55	XHSA2M14X55	XHSA2M16X55	XHSA2M20X55	XHSA2M24X55
	Std Pack	25	25	25	25	10
60	Part Number	XHSA2M12X60	XHSA2M14X60	XHSA2M16X60	XHSA2M20X60	XHSA2M24X60
	Std Pack	25	25	25	25	10
65	Part Number	XHSA2M12X65	XHSA2M14X65	XHSA2M16X65	XHSA2M20X65	XHSA2M24X65
	Std Pack	25	25	25	25	10
70	Part Number	XHSA2M12X70	XHSA2M14X70	XHSA2M16X70	XHSA2M20X70	XHSA2M24X70
	Std Pack	25	25	25	25	10
75	Part Number	XHSA2M12X75	XHSA2M14X75	XHSA2M16X75	XHSA2M20X75	XHSA2M24X75
	Std Pack	25	25	25	20	10
80	Part Number	XHSA2M12X80	XHSA2M14X80	XHSA2M16X80	XHSA2M20X80	XHSA2M24X80
	Std Pack	25	25	25	20	10
90	Part Number	XHSA2M12X90	XHSA2M14X90	XHSA2M16X90	XHSA2M20X90	XHSA2M24X90
	Std Pack	25	25	25	10	10
100	Part Number	XHSA2M12X100	XHSA2M14X100	XHSA2M16X100	XHSA2M20X100	XHSA2M24X100
	Std Pack	25	25	25	10	10
110	Part Number	XHSA2M12X110		XHSA2M16X110	XHSA2M20X110	XHSA2M24X110
	Std Pack	25		25	10	10
120	Part Number	XHSA2M12X120		XHSA2M16X120	XHSA2M20X120	XHSA2M24X120
	Std Pack	25		25	10	10
130	Part Number	XHSA2M12X130		XHSA2M16X130	XHSA2M20X130	XHSA2M24X130
	Std Pack	25		20	10	10
140	Part Number	XHSA2M12X140		XHSA2M16X140	XHSA2M20X140	XHSA2M24X140
	Std Pack	25		20	10	10
150	Part Number	XHSA2M12X150		XHSA2M16X150	XHSA2M20X150	XHSA2M24X150
	Std Pack	25		20	10	10

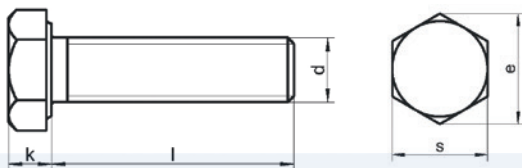
All measurements are in mm

A4**316**

Hexagon Head Set Screw

DIN 933 ISO 4017

METRIC

XHS

	s nom.	7.00	8.00	10.00	13.00	17.00	19.00	22.00	24.00
	k nom.	2.80	3.50	4.00	5.30	6.40	7.50	8.80	10.00
	e min.	7.66	8.79	11.05	14.38	18.90	21.10	24.49	26.75
Length (l)	Size (d)	M4	M5	M6	M8	M10	M12	M14	M16
8	Part Number	XHSA4M4X8							
	Std Pack	100							
10	Part Number	XHSA4M4X10	XHSA4M5X10	XHSA4M6X10	XHSA4M8X10				
	Std Pack	100	100	100	100				
12	Part Number	XHSA4M4X12	XHSA4M5X12	XHSA4M6X12	XHSA4M8X12	XHSA4M10X12			
	Std Pack	100	100	100	100	100			
16	Part Number	XHSA4M4X16	XHSA4M5X16	XHSA4M6X16	XHSA4M8X16	XHSA4M10X16			
	Std Pack	100	100	100	100	100			
20	Part Number	XHSA4M4X20	XHSA4M5X20	XHSA4M6X20	XHSA4M8X20	XHSA4M10X20	XHSA4M12X20		
	Std Pack	100	100	100	100	100	100		
25	Part Number	XHSA4M4X25	XHSA4M5X25	XHSA4M6X25	XHSA4M8X25	XHSA4M10X25	XHSA4M12X25	XHSA4M14X25	XHSA4M16X25
	Std Pack	100	100	100	100	100	100	25	25
30	Part Number	XHSA4M4X30	XHSA4M5X30	XHSA4M6X30	XHSA4M8X30	XHSA4M10X30	XHSA4M12X30	XHSA4M14X30	XHSA4M16X30
	Std Pack	100	100	100	100	100	100	25	25
35	Part Number	XHSA4M4X35	XHSA4M5X35	XHSA4M6X35	XHSA4M8X35	XHSA4M10X35	XHSA4M12X35	XHSA4M14X35	XHSA4M16X35
	Std Pack	100	100	100	100	100	100	25	25
40	Part Number	XHSA4M4X40	XHSA4M5X40	XHSA4M6X40	XHSA4M8X40	XHSA4M10X40	XHSA4M12X40	XHSA4M14X40	XHSA4M16X40
	Std Pack	100	100	100	100	100	50	25	25
45	Part Number		XHSA4M5X45	XHSA4M6X45	XHSA4M8X45	XHSA4M10X45	XHSA4M12X45	XHSA4M14X45	XHSA4M16X45
	Std Pack		100	100	100	100	50	25	25
50	Part Number		XHSA4M5X50	XHSA4M6X50	XHSA4M8X50	XHSA4M10X50	XHSA4M12X50	XHSA4M14X50	XHSA4M16X50
	Std Pack		100	100	100	100	50	25	25
55	Part Number			XHSA4M6X55	XHSA4M8X55	XHSA4M10X55	XHSA4M12X55	XHSA4M14X55	XHSA4M16X55
	Std Pack			50	50	50	25	25	25
60	Part Number		XHSA4M5X60	XHSA4M6X60	XHSA4M8X60	XHSA4M10X60	XHSA4M12X60	XHSA4M14X60	XHSA4M16X60
	Std Pack		100	50	50	50	25	25	25
65	Part Number			XHSA4M6X65	XHSA4M8X65	XHSA4M10X65	XHSA4M12X65	XHSA4M14X65	XHSA4M16X65
	Std Pack			50	50	50	25	25	25
70	Part Number			XHSA4M6X70	XHSA4M8X70	XHSA4M10X70	XHSA4M12X70	XHSA4M14X70	XHSA4M16X70
	Std Pack			50	50	50	25	25	25
75	Part Number			XHSA4M6X75	XHSA4M8X75	XHSA4M10X75	XHSA4M12X75	XHSA4M14X75	XHSA4M16X75
	Std Pack			50	50	50	25	25	25
80	Part Number			XHSA4M6X80	XHSA4M8X80	XHSA4M10X80	XHSA4M12X80	XHSA4M14X80	XHSA4M16X80
	Std Pack			50	50	50	25	25	25
85	Part Number								XHSA4M16X85
	Std Pack								25
90	Part Number			XHSA4M6X90	XHSA4M8X90	XHSA4M10X90	XHSA4M12X90	XHSA4M14X90	XHSA4M16X90
	Std Pack			50	50	50	25	25	25
100	Part Number			XHSA4M6X100	XHSA4M8X100	XHSA4M10X100	XHSA4M12X100	XHSA4M14X100	XHSA4M16X100
	Std Pack			50	50	50	25	25	25
110	Part Number				XHSA4M8X110	XHSA4M10X110	XHSA4M12X110		XHSA4M16X110
	Std Pack				25	25	25		25
120	Part Number				XHSA4M8X120	XHSA4M10X120	XHSA4M12X120		XHSA4M16X120
	Std Pack				25	25	25		25
130	Part Number				XHSA4M8X130	XHSA4M10X130	XHSA4M12X130		XHSA4M16X130
	Std Pack				25	25	25		20
140	Part Number				XHSA4M8X140	XHSA4M10X140	XHSA4M12X140		XHSA4M16X140
	Std Pack				25	25	25		20
150	Part Number				XHSA4M8X150	XHSA4M10X150	XHSA4M12X150		XHSA4M16X150
	Std Pack				25	25	25		20
160	Part Number					XHSA4M10X160	XHSA4M12X160		XHSA4M16X160
	Std Pack					25	25		20
180	Part Number					XHSA4M10X180	XHSA4M12X180		XHSA4M16X180
	Std Pack					25	25		20
200	Part Number					XHSA4M10X200	XHSA4M12X200		XHSA4M16X200
	Std Pack					25	25		20

All measurements are in mm

XHS

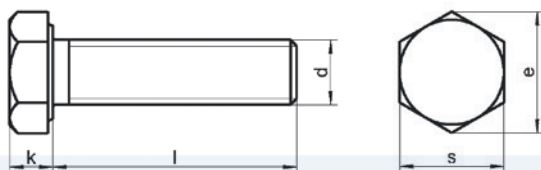
Hexagon Head Set Screw

DIN 933 ISO 4017

METRIC

A4

316



	s nom.	27.00	30.00	32.00	36.00	41.00	46.00	50.00	55.00
	k nom.	11.50	12.50	14.00	15.00	17.00	18.70	21.00	22.50
	e min.	30.14	33.53	35.72	39.98	45.20	50.85	55.37	60.79
Length (l)	Size (d)	M18	M20	M22	M24	M27	M30	M33	M36
8	Part Number								
	Std Pack								
10	Part Number								
	Std Pack								
12	Part Number								
	Std Pack								
16	Part Number								
	Std Pack								
20	Part Number								
	Std Pack								
25	Part Number								
	Std Pack								
30	Part Number		XHSA4M20X30						
	Std Pack		25						
35	Part Number		XHSA4M20X35						
	Std Pack		25						
40	Part Number	XHSA4M18X40	XHSA4M20X40		XHSA4M24X40				
	Std Pack	25	25		10				
45	Part Number	XHSA4M18X45	XHSA4M20X45		XHSA4M24X45				
	Std Pack	25	25		10				
50	Part Number	XHSA4M18X50	XHSA4M20X50	XHSA4M22X50	XHSA4M24X50				
	Std Pack	25	25	10	10				
55	Part Number	XHSA4M18X55	XHSA4M20X55	XHSA4M22X55	XHSA4M24X55				
	Std Pack	25	25	10	10				
60	Part Number	XHSA4M18X60	XHSA4M20X60	XHSA4M22X60	XHSA4M24X60	XHSA4M27X60			
	Std Pack	25	25	10	10	5			
65	Part Number	XHSA4M18X65	XHSA4M20X65	XHSA4M22X65	XHSA4M24X65	XHSA4M27X65			
	Std Pack	25	25	10	10	5			
70	Part Number	XHSA4M18X70	XHSA4M20X70	XHSA4M22X70	XHSA4M24X70	XHSA4M27X70	XHSA4M30X70		
	Std Pack	25	25	10	10	5	5		
75	Part Number	XHSA4M18X75	XHSA4M20X75	XHSA4M22X75	XHSA4M24X75	XHSA4M27X75	XHSA4M30X75		
	Std Pack	25	20	10	10	5	5		
80	Part Number	XHSA4M18X80	XHSA4M20X80	XHSA4M22X80	XHSA4M24X80	XHSA4M27X80	XHSA4M30X80	XHSA4M33X80	XHSA4M36X80
	Std Pack	25	20	10	10	5	5	1	1
85	Part Number		XHSA4M20X85						
	Std Pack		10						
90	Part Number	XHSA4M18X90	XHSA4M20X90	XHSA4M22X90	XHSA4M24X90	XHSA4M27X90	XHSA4M30X90	XHSA4M33X90	XHSA4M36X90
	Std Pack	25	10	10	10	5	5	1	1
100	Part Number	XHSA4M18X100	XHSA4M20X100	XHSA4M22X100	XHSA4M24X100	XHSA4M27X100	XHSA4M30X100	XHSA4M33X100	XHSA4M36X100
	Std Pack	25	10	10	10	5	5	1	1
110	Part Number		XHSA4M20X110		XHSA4M24X110				
	Std Pack		10		10				
120	Part Number		XHSA4M20X120		XHSA4M24X120				
	Std Pack		10		10				
130	Part Number		XHSA4M20X130		XHSA4M24X130				
	Std Pack		10		10				
140	Part Number		XHSA4M20X140		XHSA4M24X140				
	Std Pack		10		10				
150	Part Number		XHSA4M20X150		XHSA4M24X150				
	Std Pack		10		10				
160	Part Number		XHSA4M20X160		XHSA4M24X160				
	Std Pack		10		10				
180	Part Number		XHSA4M20X180		XHSA4M24X180				
	Std Pack		10		10				
200	Part Number		XHSA4M20X200		XHSA4M24X200				
	Std Pack		10		10				

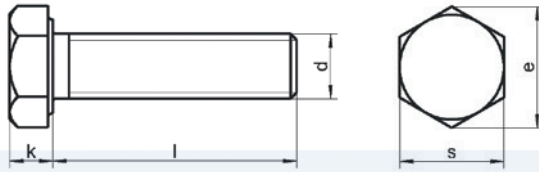
All measurements are in mm

A2**304**

Hexagon Head Set Screw

ANSI / ASME B18.2.1

UNC

XHS

s max.		0.44	0.50	0.56	0.63	0.75	0.94	1.13
k max.		0.16	0.21	0.24	0.29	0.32	0.40	0.48
e max.		0.51	0.58	0.65	0.72	0.87	1.08	1.30
Length (l)	Size (d)	1/4	5/16	3/8	7/16	1/2	5/8	3/4
3/8	Part Number	XHSA214UNCX38						
	Std Pack	100						
1/2	Part Number	XHSA214UNCX12	XHSA2516UNCX12	XHSA238UNCX12				
	Std Pack	100	100	100				
5/8	Part Number	XHSA214UNCX58	XHSA2516UNCX58	XHSA238UNCX58				
	Std Pack	100	100	100				
3/4	Part Number	XHSA214UNCX34	XHSA2516UNCX34	XHSA238UNCX34		XHSA212UNCX34		
	Std Pack	100	100	100		100		
1	Part Number	XHSA214UNCX1	XHSA2516UNCX1	XHSA238UNCX1	XHSA2716UNCX1	XHSA212UNCX1	XHSA258UNCX1	
	Std Pack	100	100	100	100	100	25	
1 1/4	Part Number	XHSA214UNCX114	XHSA2516UNCX114	XHSA238UNCX114	XHSA2716UNCX114	XHSA212UNCX114	XHSA258UNCX114	XHSA234UNCX114
	Std Pack	100	100	100	100	100	25	25
1 1/2	Part Number	XHSA214UNCX112	XHSA2516UNCX112	XHSA238UNCX112	XHSA2716UNCX112	XHSA212UNCX112	XHSA258UNCX112	XHSA234UNCX112
	Std Pack	100	100	100	50	50	25	25
1 3/4	Part Number	XHSA214UNCX134	XHSA2516UNCX134	XHSA238UNCX134		XHSA212UNCX134	XHSA258UNCX134	XHSA234UNCX134
	Std Pack	100	100	100		50	25	25
2	Part Number	XHSA214UNCX2	XHSA2516UNCX2	XHSA238UNCX2	XHSA2716UNCX2	XHSA212UNCX2	XHSA258UNCX2	XHSA234UNCX2
	Std Pack	100	100	100	50	50	25	25
2 1/4	Part Number	XHSA214UNCX214	XHSA2516UNCX214	XHSA238UNCX214		XHSA212UNCX214	XHSA258UNCX214	XHSA234UNCX214
	Std Pack	50	50	50		25	25	25
2 1/2	Part Number	XHSA214UNCX212	XHSA2516UNCX212	XHSA238UNCX212		XHSA212UNCX212	XHSA258UNCX212	XHSA234UNCX212
	Std Pack	50	50	50		25	25	25
3	Part Number	XHSA214UNCX3	XHSA2516UNCX3	XHSA238UNCX3		XHSA212UNCX3	XHSA258UNCX3	XHSA234UNCX3
	Std Pack	50	50	50		25	25	25
3 1/2	Part Number	XHSA214UNCX312	XHSA2516UNCX312	XHSA238UNCX312		XHSA212UNCX312	XHSA258UNCX312	XHSA234UNCX312
	Std Pack	50	50	50		25	25	25
4	Part Number	XHSA214UNCX4	XHSA2516UNCX4	XHSA238UNCX4		XHSA212UNCX4	XHSA258UNCX4	XHSA234UNCX4
	Std Pack	50	50	50		25	25	25

All measurements are in inches

Did you know?

Some of the earliest screws to be used as fasteners were used in military weapons

For example, screws were widely used in putting firearms together in the early 16th century. The threads provided a snugger fit that could survive the vibrations from the firing gun. Screws were also widely used in assembly armour. When screws are inserted into metal their threads must be accurate in order to fit properly into the receiving threads. These screws were created by first hammering out a head and shank and then cutting the thread using a die called a screw plate.

XHS

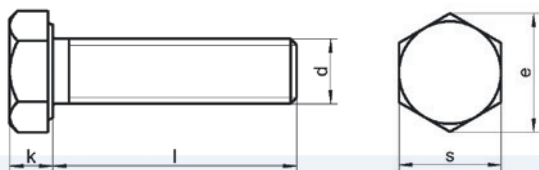
Hexagon Head Set Screw

ANSI / ASME B18.2.1

UNC

A4

316



s max.		0.44	0.50	0.56	0.63	0.75
k max.		0.16	0.21	0.24	0.29	0.32
e max.		0.51	0.58	0.65	0.72	0.87
Length (l)	Size (d)	1/4	5/16	3/8	7/16	1/2
1/2	Part Number	XHSA414UNCX12	XHSA4516UNCX12	XHSA438UNCX12		
	Std Pack	100	100	100		
5/8	Part Number	XHSA414UNCX58	XHSA4516UNCX58			
	Std Pack	100	100			
3/4	Part Number	XHSA414UNCX34	XHSA4516UNCX34	XHSA438UNCX34		XHSA412UNCX34
	Std Pack	100	100	100		100
1	Part Number	XHSA414UNCX1	XHSA4516UNCX1	XHSA438UNCX1	XHSA4716UNCX1	XHSA412UNCX1
	Std Pack	100	100	100	100	100
1 1/4	Part Number	XHSA414UNCX114	XHSA4516UNCX114	XHSA438UNCX114	XHSA4716UNCX114	XHSA412UNCX114
	Std Pack	100	100	100	100	100
1 1/2	Part Number	XHSA414UNCX112	XHSA4516UNCX112	XHSA438UNCX112	XHSA4716UNCX112	XHSA412UNCX112
	Std Pack	100	100	100	50	50
1 3/4	Part Number	XHSA414UNCX134	XHSA4516UNCX134	XHSA438UNCX134		XHSA412UNCX134
	Std Pack	100	100	100		50
2	Part Number	XHSA414UNCX2	XHSA4516UNCX2	XHSA438UNCX2	XHSA4716UNCX2	XHSA412UNCX2
	Std Pack	100	100	100	50	50
2 1/4	Part Number	XHSA414UNCX214	XHSA4516UNCX214	XHSA438UNCX214		XHSA412UNCX214
	Std Pack	50	50	50		25
2 1/2	Part Number	XHSA414UNCX212	XHSA4516UNCX212	XHSA438UNCX212		XHSA412UNCX212
	Std Pack	50	50	50		25
3	Part Number	XHSA414UNCX3	XHSA4516UNCX3	XHSA438UNCX3		XHSA412UNCX3
	Std Pack	50	50	50		25
3 1/2	Part Number	XHSA414UNCX312	XHSA4516UNCX312	XHSA438UNCX312		XHSA412UNCX312
	Std Pack	50	50	50		25
4	Part Number	XHSA414UNCX4	XHSA4516UNCX4	XHSA438UNCX4		XHSA412UNCX4
	Std Pack	50	50	50		25

s max.		0.94	1.13	1.52	1.73
k max.		0.40	0.48	0.56	0.63
e max.		1.08	1.30	1.52	1.73
Length (l)	Size (d)	5/8	3/4	7/8	1
1/2	Part Number				
	Std Pack				
5/8	Part Number				
	Std Pack				
3/4	Part Number				
	Std Pack				
1	Part Number	XHSA458UNCX1			
	Std Pack	25			
1 1/4	Part Number	XHSA458UNCX114	XHSA434UNCX114		
	Std Pack	25	25		
1 1/2	Part Number	XHSA458UNCX112	XHSA434UNCX112		
	Std Pack	25	25		
1 3/4	Part Number	XHSA458UNCX134	XHSA434UNCX134		
	Std Pack	25	25		
2	Part Number	XHSA458UNCX2	XHSA434UNCX2	XHSA478UNCX2	XHSA41UNCX2
	Std Pack	25	25	10	10
2 1/4	Part Number	XHSA458UNCX214	XHSA434UNCX214		
	Std Pack	25	25		
2 1/2	Part Number	XHSA458UNCX212	XHSA434UNCX212	XHSA478UNCX212	XHSA41UNCX212
	Std Pack	25	25	10	10
3	Part Number	XHSA458UNCX3	XHSA434UNCX3	XHSA478UNCX3	XHSA41UNCX3
	Std Pack	25	20	10	10
3 1/2	Part Number	XHSA458UNCX312	XHSA434UNCX312	XHSA478UNCX312	XHSA41UNCX312
	Std Pack	25	20	10	10
4	Part Number	XHSA458UNCX4	XHSA434UNCX4	XHSA478UNCX4	XHSA41UNCX4
	Std Pack	25	10	10	10

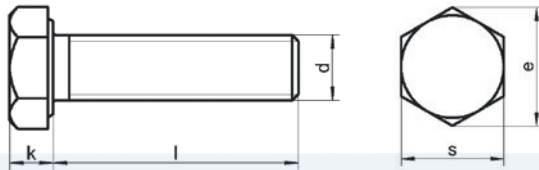
All measurements are in inches

A4**316**

Hexagon Head Set Screw

BS 1083

BSW

XHS

	s max.	0.82
	k max.	0.38
	e max.	0.95
Length (l)	Size (d)	1/2
3/4	Part Number	XHSA412BSWX34
	Std Pack	100
1	Part Number	XHSA412BSWX1
	Std Pack	100
1 1/4	Part Number	XHSA412BSWX114
	Std Pack	100
1 1/2	Part Number	XHSA412BSWX112
	Std Pack	50
1 3/4	Part Number	XHSA412BSWX134
	Std Pack	50
2	Part Number	XHSA412BSWX2
	Std Pack	50
2 1/2	Part Number	XHSA412BSWX212
	Std Pack	25
3	Part Number	XHSA412BSWX3
	Std Pack	25
3 1/2	Part Number	XHSA412BSWX312
	Std Pack	25
4	Part Number	XHSA412BSWX4
	Std Pack	25

All measurements are in inches

Did you know?

The screw first appears in machinery during the time of the Ancient Greeks, when screws were used in presses of various kinds

Screws were first used in olive presses and grape presses. In the Middle Ages, this mechanism was adapted for use in the printing press and the paper press. The screw mechanism allows for tremendous force to be exerted on the object being pressed with minimal effort. For example, imagine a press whose large screw has a pitch of one inch, and which is turned by means of a handspike three feet long. A pressure of only 40 pounds on the handspike will exert a pressure of more than nine thousand pounds on the olives or grapes.

XCS

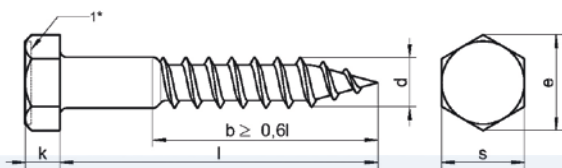
Hexagon Head Coach Screw

DIN 571

METRIC

A4

316



s max.		10.00	13.00	17.00	19.00
k max.		4.38	5.88	7.45	8.45
e max.		10.89	14.20	18.72	20.88
Length (l)	Size (d)	M6	M8	M10	M12
30	Part Number	XCSA4M6X30	XCSA4M8X30		
	Std Pack	100	50		
40	Part Number	XCSA4M6X40	XCSA4M8X40	XCSA4M10X40	XCSA4M12X40
	Std Pack	100	50	50	25
50	Part Number	XCSA4M6X50	XCSA4M8X50	XCSA4M10X50	XCSA4M12X50
	Std Pack	100	50	50	25
65	Part Number	XCSA4M6X65	XCSA4M8X65	XCSA4M10X65	XCSA4M12X65
	Std Pack	50	50	25	25
75	Part Number	XCSA4M6X75	XCSA4M8X75	XCSA4M10X75	XCSA4M12X75
	Std Pack	50	50	25	25
100	Part Number	XCSA4M6X100	XCSA4M8X100	XCSA4M10X100	XCSA4M12X100
	Std Pack	50	50	25	25
120	Part Number	XCSA4M6X120	XCSA4M8X120	XCSA4M10X120	XCSA4M12X120
	Std Pack	50	25	25	25
130	Part Number		XCSA4M8X130	XCSA4M10X130	XCSA4M12X130
	Std Pack		25	25	25
150	Part Number		XCSA4M8X150	XCSA4M10X150	XCSA4M12X150
	Std Pack		25	25	25

All measurements are in mm

Did you know?

The Coach Screws essential form of the fastener has been in existence for over 2,000 years

Although metal rivets used for construction and woodworking have only been in use since 19th century and that was made possible due to the initiation of the mass-manufacture.

It was only during the Second World War that the size of these hardware supplies became standardized, so that they could be manufactured and shared between Allied forces at much ease.

Head Styles



Hex heads

are typically used with larger bolt and screws.



Countersunk heads

are installed in a countersunk hole for a flt at surface.



Socket heads

are narrow with a socket drive, and knurled or smooth sides.



Pan heads

have a slightly domed head that sits above the surface.



Round heads

are tall domed heads, used primarily for a decorative purposes.



Button heads

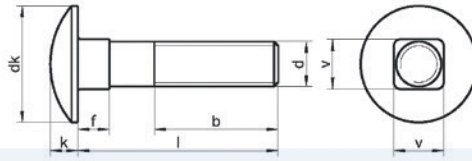
feature a medium dome. Typically used with hex socket drive.

A4**316**

Cup Head Square Neck Bolt

DIN 603 ISO 8677

METRIC

CHB

b for L ≤ 125mm	18.00	22.00	26.00	30.00	38.00
b for L ≥ 125-200mm	24.00	28.00	32.00	36.00	44.00
b for L ≥ 200mm	-	41.00	45.00	49.00	57.00
dk max.	16.55	20.65	24.65	30.65	38.80
f max.	4.60	5.60	6.60	8.75	12.90
k max.	3.88	4.88	5.38	6.95	8.95
v max.	6.48	8.58	10.58	12.70	16.70

Length (l)	Size (d)	M6	M8	M10	M12	M16
20	Part Number	CHBA4M6X20	CHBA4M8X20			
	Std Pack	100	50			
25	Part Number	CHBA4M6X25	CHBA4M8X25	CHBA4M10X25		
	Std Pack	100	50	50		
30	Part Number	CHBA4M6X30	CHBA4M8X30	CHBA4M10X30		
	Std Pack	100	50	50		
40	Part Number	CHBA4M6X40	CHBA4M8X40	CHBA4M10X40	CHBA4M12X40	
	Std Pack	100	50	50	25	
50	Part Number	CHBA4M6X50	CHBA4M8X50	CHBA4M10X50	CHBA4M12X50	CHBA4M16X50
	Std Pack	100	50	50	25	25
60	Part Number	CHBA4M6X60	CHBA4M8X60	CHBA4M10X60	CHBA4M12X60	CHBA4M16X60
	Std Pack	50	50	25	25	25
70	Part Number	CHBA4M6X70	CHBA4M8X70	CHBA4M10X70	CHBA4M12X70	CHBA4M16X70
	Std Pack	50	50	25	25	25
80	Part Number	CHBA4M6X80	CHBA4M8X80	CHBA4M10X80	CHBA4M12X80	CHBA4M16X80
	Std Pack	50	50	25	25	25
100	Part Number	CHBA4M6X100	CHBA4M8X100	CHBA4M10X100	CHBA4M12X100	CHBA4M16X100
	Std Pack	50	50	25	25	25
120	Part Number		CHBA4M8X120	CHBA4M10X120	CHBA4M12X120	CHBA4M16X120
	Std Pack		50	25	25	10
130	Part Number		CHBA4M8X130	CHBA4M10X130	CHBA4M12X130	CHBA4M16X130
	Std Pack		50	25	25	10
150	Part Number		CHBA4M8X150	CHBA4M10X150	CHBA4M12X150	CHBA4M16X150
	Std Pack		50	25	10	10
160	Part Number				CHBA4M12X160	
	Std Pack				10	
180	Part Number				CHBA4M12X180	
	Std Pack				10	
200	Part Number				CHBA4M12X200	
	Std Pack				10	
220	Part Number				CHBA4M12X220	
	Std Pack				10	
240	Part Number				CHBA4M12X240	
	Std Pack				10	

All measurements are in mm

Did you know?

Stainless Steel has an invisible self-repairing outer layer

Stainless metals form an invisible oxide coating that protects it from external factors. This is the main reason stainless steel is so resistant to corrosion. If the material is in an oxygen rich environment, even if the metal is damaged removing the oxide layer, it will reform and protect the metal again.

ATR

Threaded Rod 1 Metre

DIN 975

METRIC

A2**304**

Diameter (d)	Length (l)	Part Number	Std Pack
M3	1000	ATRA2M3X1000	10
M4	1000	ATRA2M4X1000	10
M5	1000	ATRA2M5X1000	10
M6	1000	ATRA2M6X1000	10
M8	1000	ATRA2M8X1000	10
M10	1000	ATRA2M10X1000	10
M12	1000	ATRA2M12X1000	5
M14	1000	ATRA2M14X1000	5
M16	1000	ATRA2M16X1000	5
M20	1000	ATRA2M20X1000	5
M24	1000	ATRA2M24X1000	5

All measurements are in mm

ATR

Threaded Rod 1 Metre

DIN 975

METRIC

A4**316**

Diameter (d)	Length (l)	Part Number	Std Pack
M3	1000	ATRA4M3X1000	10
M4	1000	ATRA4M4X1000	10
M5	1000	ATRA4M5X1000	10
M6	1000	ATRA4M6X1000	10
M8	1000	ATRA4M8X1000	10
M10	1000	ATRA4M10X1000	10
M12	1000	ATRA4M12X1000	5
M14	1000	ATRA4M14X1000	5
M16	1000	ATRA4M16X1000	5
M18	1000	ATRA4M18X1000	5
M20	1000	ATRA4M20X1000	5
M22	1000	ATRA4M22X1000	5
M24	1000	ATRA4M24X1000	5
M27	1000	ATRA4M27X1000	2
M30	1000	ATRA4M30X1000	2
M33	1000	ATRA4M33X1000	1
M36	1000	ATRA4M36X1000	1
M39	1000	ATRA4M39X1000	1
M42	1000	ATRA4M42X1000	1
M48	1000	ATRA4M48X1000	1

All measurements are in mm

A2**304****Threaded Rod 3 Metre**

DIN 975

METRIC

ATR

Diameter (d)	Length (l)	Part Number	Std Pack
M6	3000	ATRA2M6X3000	10
M8	3000	ATRA2M8X3000	10
M10	3000	ATRA2M10X3000	10
M12	3000	ATRA2M12X3000	5
M16	3000	ATRA2M16X3000	5
M20	3000	ATRA2M20X3000	5
M24	3000	ATRA2M24X3000	2

All measurements are in mm

A4**316****Threaded Rod 3 Metre**

DIN 975

METRIC

ATR

Diameter (d)	Length (l)	Part Number	Std Pack
M6	3000	ATRA4M6X3000	10
M8	3000	ATRA4M8X3000	10
M10	3000	ATRA4M10X3000	10
M12	3000	ATRA4M12X3000	5
M16	3000	ATRA4M16X3000	5
M20	3000	ATRA4M20X3000	5
M24	3000	ATRA4M24X3000	2
M27	3000	ATRA4M27X3000	2
M30	3000	ATRA4M30X3000	1
M33	3000	ATRA4M33X3000	1
M36	3000	ATRA4M36X3000	1

All measurements are in mm

Did you know?

Stainless Steel Threaded Rod is ideal for applications requiring a longer length bolt

Stainless steel threaded rod can be cut to the desired length with a diamond or carborundum blade.

ATR

Threaded Rod 3 Foot

IFI 136C

UNC

A2

304



Diameter (d)	Length (l)	Part Number	Std Pack
10-24"	36"	ATRA21024UNCX3	10
1/4"	36"	ATRA214UNCX3	10
5/16"	36"	ATRA2516UNCX3	10
3/8"	36"	ATRA238UNCX3	10
7/16"	36"	ATRA2716UNCX3	10
1/2"	36"	ATRA212UNCX3	10
5/8"	36"	ATRA258UNCX3	5
3/4"	36"	ATRA234UNCX3	5
7/8"	36"	ATRA278UNCX3	2
1"	36"	ATRA21UNCX3	2

All measurements are in inches

ATR

Threaded Rod 3 Foot

IFI 136C

UNC

A4

316



Diameter (d)	Length (l)	Part Number	Std Pack
10-24"	36"	ATRA41024UNCX3	10
1/4"	36"	ATRA414UNCX3	10
5/16"	36"	ATRA4516UNCX3	10
3/8"	36"	ATRA438UNCX3	10
7/16"	36"	ATRA4716UNCX3	10
1/2"	36"	ATRA412UNCX3	10
5/8"	36"	ATRA458UNCX3	5
3/4"	36"	ATRA434UNCX3	5
7/8"	36"	ATRA478UNCX3	2
1"	36"	ATRA41UNCX3	2
1-1/8"	36"	ATRA4118UNCX3	1
1-1/4"	36"	ATRA4114UNCX3	1
1-1/2"	36"	ATRA4112UNCX3	1

All measurements are in inches

A2**304****Threaded Rod 3 Foot****ATR**

AS 3501

BSW



Diameter (d)	Length (l)	Part Number	Std Pack
1/2"	36"	ATRA212BSWX3	5

All measurements are in inches

A4**316****Threaded Rod 3 Foot****ATR**

AS 3501

BSW



Diameter (d)	Length (l)	Part Number	Std Pack
1/2"	36"	ATRA412BSWX3	5

All measurements are in inches

Did you know?

A threaded rod is a type of metal fastener with threads cut into both ends

These rods resemble the shank of a screw yet tend to be longer and thicker than a standard screw. Threaded rods do not have heads or washers like those found on a screw on bolt and tend to be the same diameter along their entire length. All thread rod, commonly referred to as fully threaded rod, redi-rod, continuously threaded rod, and abbreviated ATR is used for general purpose fastening for anything from an anchor bolt to a through bolt. Available in 304 and 316 Grade stainless steel.

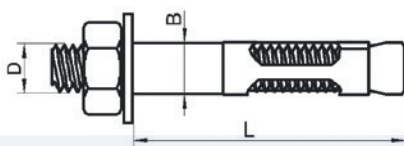
SAN

Sleeve Anchor - Hex Flange Nut

A4

316

METRIC



D	B	Length (L)	Part Number	Std Pack
M6.5	8	35	SANA4M6X35	100
M6.5	8	55	SANA4M6X55	100
M8	10	40	SANA4M8X40	100
M8	10	65	SANA4M8X65	50
M8	10	80	SANA4M8X80	50
M10	12	50	SANA4M10X50	50
M10	12	75	SANA4M10X75	50
M10	12	100	SANA4M10X100	50
M12	15	60	SANA4M12X60	50
M12	15	75	SANA4M12X75	50
M12	15	100	SANA4M12X100	25

All measurements are in mm

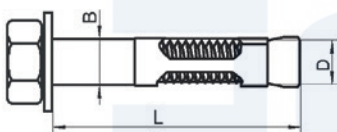
FAN

Sleeve Anchor - Flush Head

A4

316

METRIC



D	B	L	Part Number	Std Pack
M8	10	45	FANA4M8X45	100
M8	10	70	FANA4M8X70	50
M8	10	90	FANA4M8X90	50
M10	12	45	FANA4M10X45	50
M10	12	60	FANA4M10X60	50
M10	12	75	FANA4M10X75	50
M10	12	100	FANA4M10X100	50
M12	17	60	FANA4M12X60	25
M12	17	75	FANA4M12X75	25

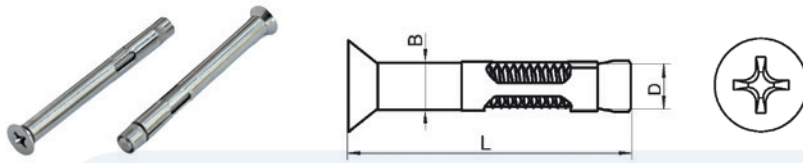
All measurements are in mm

A4**316**

Sleeve Anchor - Countersunk

CAN

METRIC



D	B	L	Part Number	Std Pack
M6.5	8	55	CANA4M6X55	100
M6.5	8	75	CANA4M6X75	100
M6.5	8	100	CANA4M6X100	100
M8	10	60	CANA4M8X60	50
M8	10	80	CANA4M8X80	50
M8	10	100	CANA4M8X100	50
M10	12	75	CANA4M10X75	50
M10	12	100	CANA4M10X100	50

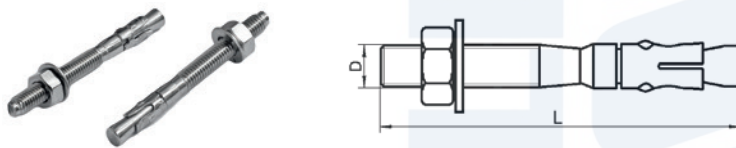
All measurements are in mm

A4**316**

Stud Anchor (Wedge)

STA

METRIC



D	L	Part Number	Std Pack
M8	50	STAA4M8X50	50
M8	65	STAA4M8X65	50
M8	80	STAA4M8X80	50
M10	60	STAA4M10X60	25
M10	75	STAA4M10X75	25
M10	90	STAA4M10X90	25
M10	120	STAA4M10X120	25
M12	80	STAA4M12X80	20
M12	100	STAA4M12X100	20
M12	120	STAA4M12X120	20
M12	140	STAA4M12X140	20
M16	105	STAA4M16X105	20
M16	125	STAA4M16X125	20
M16	140	STAA4M16X140	20
M16	180	STAA4M16X180	20
M20	125	STAA4M20X125	10
M20	160	STAA4M20X160	10

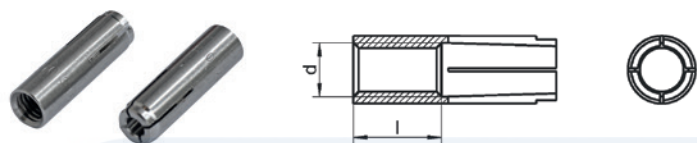
All measurements are in mm

DIN

Drop In Anchor

A4**316**

METRIC



Size (d)	Bore hole	Bore depth	Part Number	Std Pack
M6	8	25	DINA4M6X25	100
M8	10	30	DINA4M8X30	100
M10	12	40	DINA4M10X40	50
M12	15	50	DINA4M12X50	50

All measurements are in mm

Did you know?

Concrete fasteners are called by many different names

Each name refers to the same basic product, but different companies have branded their product differently.

Stud Anchor - Wedge anchor, kwik-bolt, thunderstud, thunderstuds, concrete stud anchor, power bolt, power stud, trubolt, redi bolt, wedge all, kingpin.

Sleeve anchor - Thunderbolt, lock bolt, dynabolt, sleeve all, masonry anchor.

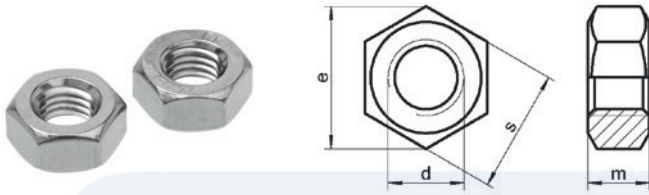
Drop in Anchor - Female anchor, thunderdrop, multi-set, concrete anchor.

A2**304**

Hexagon Nut

DIN 934 ISO 4032

METRIC

XNU

Size (d)	m max.	s max.	e min.	Part Number	Std Pack
M2	1.60	4.00	4.32	XNUA2M2	200
M2.5	2.00	5.00	5.45	XNUA2M25	200
M3	2.40	5.50	6.01	XNUA2M3	200
M4	3.20	7.00	7.66	XNUA2M4	200
M5	4.70	8.00	8.79	XNUA2M5	200
M6	5.20	10.00	11.05	XNUA2M6	100
M8	6.80	13.00	14.38	XNUA2M8	100
M10	8.40	16.00	17.77	XNUA2M10	100
M12	10.80	18.00	20.03	XNUA2M12	100
M14	12.80	21.00	23.36	XNUA2M14	50
M16	14.80	24.00	26.75	XNUA2M16	50
M20	18.00	30.00	32.95	XNUA2M20	50
M24	21.50	36.00	39.55	XNUA2M24	25
M30	25.60	46.00	50.85	XNUA2M30	10

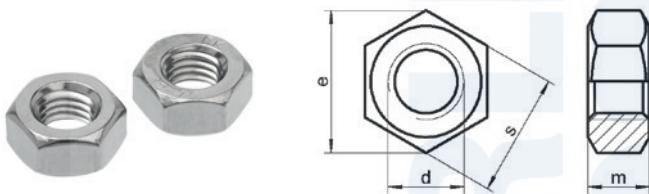
All measurements are in mm

A4**316**

Hexagon Nut

DIN 934 ISO 4032

METRIC

XNU

Size (d)	m max.	s max.	e min.	Part Number	Std Pack
M2	1.60	4.00	4.32	XNUA4M2	200
M2.5	2.00	5.00	5.45	XNUA4M25	200
M3	2.40	5.50	6.01	XNUA4M3	200
M4	3.20	7.00	7.66	XNUA4M4	200
M5	4.70	8.00	8.79	XNUA4M5	200
M6	5.20	10.00	11.05	XNUA4M6	100
M8	6.80	13.00	14.38	XNUA4M8	100
M10	8.40	16.00	17.77	XNUA4M10	100
M12	10.80	18.00	20.03	XNUA4M12	100
M14	12.80	21.00	23.36	XNUA4M14	100
M16	14.80	24.00	26.75	XNUA4M16	50
M18	15.80	27.00	29.56	XNUA4M18	50
M20	18.00	30.00	32.95	XNUA4M20	50
M22	19.40	34.00	37.29	XNUA4M22	25
M24	21.50	36.00	39.55	XNUA4M24	25
M27	23.80	41.00	45.20	XNUA4M27	25
M30	25.60	46.00	50.85	XNUA4M30	10
M33	28.70	50.00	55.37	XNUA4M33	10
M36	31.00	55.00	60.79	XNUA4M36	5
M39	33.40	60.00	66.44	XNUA4M39	5
M42	34.00	65.00	71.30	XNUA4M42	5
M48	38.00	75.00	82.60	XNUA4M48	5

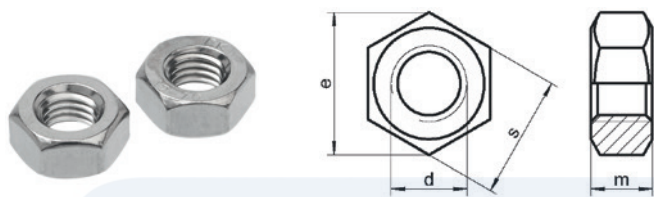
All measurements are in mm

XNU

Hexagon Nut

ANSI B18.6.3 / ANSI B18.2.2

UNC

A2**304**

Size (d)	m max.	s max.	e max.	Part Number	Std Pack
8-32	0.20	0.34	0.40	XNUA2832UNC	200
10-24	0.20	0.38	0.43	XNUA21024UNC	200
1/4	0.23	0.44	0.51	XNUA214UNC	100
5/16	0.27	0.50	0.58	XNUA2516UNC	100
3/8	0.34	0.56	0.65	XNUA238UNC	100
7/16	0.39	0.69	0.79	XNUA2716UNC	50
1/2	0.45	0.75	0.87	XNUA212UNC	100
5/8	0.56	0.94	1.08	XNUA258UNC	50
3/4	0.67	1.13	1.30	XNUA234UNC	50
7/8	0.78	1.31	1.52	XNUA278UNC	25
1	0.89	1.50	1.73	XNUA21UNC	25

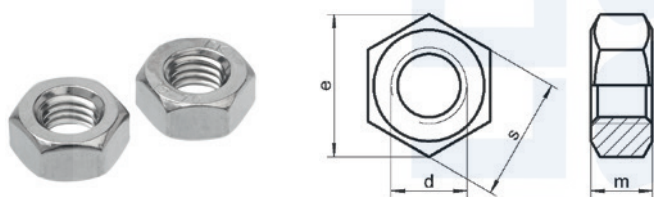
All measurements are in inches

XNU

Hexagon Nut

ANSI B18.6.3 / ANSI B18.2.2

UNC

A4**316**

Size (d)	m max.	s max.	e max.	Part Number	Std Pack
10-24	0.20	0.38	0.43	XNUA41024UNC	200
1/4	0.23	0.44	0.51	XNUA414UNC	100
5/16	0.27	0.50	0.58	XNUA4516UNC	100
3/8	0.34	0.56	0.65	XNUA438UNC	100
7/16	0.39	0.69	0.79	XNUA4716UNC	50
1/2	0.45	0.75	0.87	XNUA412UNC	100
5/8	0.56	0.94	1.08	XNUA458UNC	50
3/4	0.67	1.13	1.30	XNUA434UNC	50
7/8	0.78	1.31	1.52	XNUA478UNC	25
1	0.89	1.50	1.73	XNUA41UNC	25
1 1/8	1.00	1.69	1.95	XNUA4118UNC	10
1 1/4	1.09	1.88	2.17	XNUA4114UNC	10
1 1/2	1.32	2.25	2.60	XNUA4112UNC	10
1 3/4	1.54	2.63	3.03	XNUA4134UNC	1

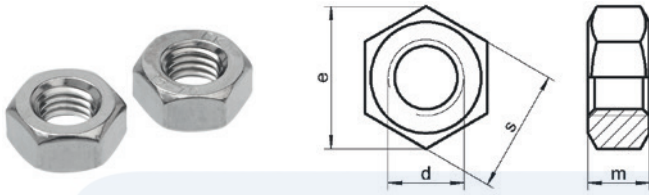
All measurements are in inches

A2**304**

Hexagon Nut

BS 1083

BSW

XNU

Size (d)	m	s	e	Part Number	Std Pack
1/8	0.12	0.22	0.23	XNUA218BSW	200
5/32	0.130	0.243	0.30	XNUA2532BSW	200
3/16	0.162	0.319	0.35	XNUA2316BSW	200
1/4	0.19	0.438	0.51	XNUA214BSW	100
1/2	0.427	0.812	0.95	XNUA212BSW	100

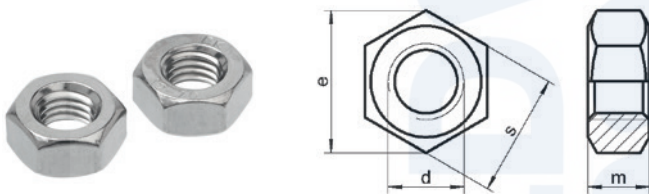
All measurements are in inches

A4**316**

Hexagon Nut

BS 1083

BSW

XNU

Size (d)	m	s	e	Part Number	Std Pack
1/8	0.12	0.22	0.23	XNUA418BSW	200
5/32	0.130	0.243	0.30	XNUA4532BSW	200
3/16	0.162	0.319	0.35	XNUA4316BSW	200
1/4	0.19	0.438	0.51	XNUA414BSW	100
1/2	0.427	0.812	0.95	XNUA412BSW	100

All measurements are in inches

Did you know?

Although screws were in use as fasteners by the mid-fifteenth century, factory production of screws didn't start until the mid-1700's.

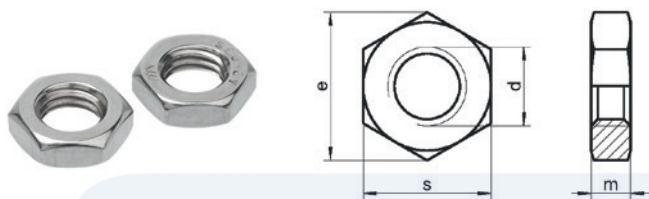
As a screw manufacturer, it's hard to imagine screws being carved by hand. Whole families literally worked day and night to file threads and cut slots in the heads of the screws. In England, blacksmiths delivered large quantities of nails formed with heads to families who then cut a slot in the head and laboriously filed the threading by hand. Not surprisingly, this tedious labour produced poor results - the screws were uneven with shallow threads. The cost of producing screws in this manner was so high that screws were sold individually.

XLN

Hexagon Lock Nut

DIN 439 ISO 4035

METRIC

A2**304**

Size (d)	m max.	s max.	e min.	Part Number	Std Pack
M4	2.20	7.00	7.66	XLNA2M4	100
M5	2.70	8.00	9.79	XLNA2M5	100
M6	3.20	10.00	11.05	XLNA2M6	100
M8	4.00	13.00	14.38	XLNA2M8	100
M10	5.00	17.00	18.90	XLNA2M10	100
M12	6.00	19.00	21.10	XLNA2M12	50
M14	7.00	22.00	24.49	XLNA2M14	50
M16	8.00	24.00	26.75	XLNA2M16	50
M20	10.00	30.00	32.95	XLNA2M20	25
M24	12.00	36.00	39.55	XLNA2M24	25

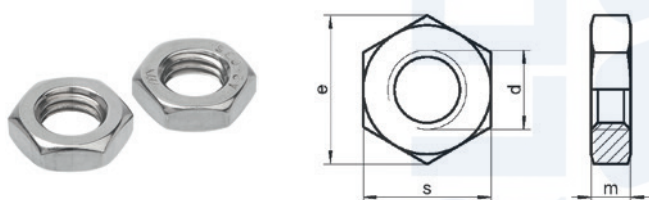
All measurements are in mm

XLN

Hexagon Lock Nut

DIN 439 ISO 4035

METRIC

A4**316**

Size (d)	m max.	s max.	e min.	Part Number	Std Pack
M4	2.20	7.00	7.66	XLNA4M4	100
M5	2.70	8.00	9.79	XLNA4M5	100
M6	3.20	10.00	11.05	XLNA4M6	100
M8	4.00	13.00	14.38	XLNA4M8	100
M10	5.00	17.00	18.90	XLNA4M10	100
M12	6.00	19.00	21.10	XLNA4M12	50
M14	7.00	22.00	24.49	XLNA4M14	50
M16	8.00	24.00	26.75	XLNA4M16	50
M18	9.00	27.00	29.56	XLNA4M18	25
M20	10.00	30.00	32.95	XLNA4M20	25
M22	11.00	32.00	35.03	XLNA4M22	25
M24	12.00	36.00	39.55	XLNA4M24	25
M27	13.50	41.00	45.20	XLNA4M27	10
M30	15.00	46.00	50.85	XLNA4M30	10
M33	16.50	50.00	55.37	XLNA4M33	5
M36	18.00	55.00	60.79	XLNA4M36	5

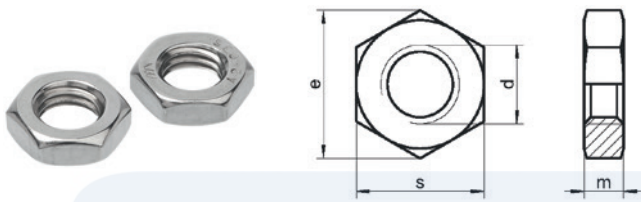
All measurements are in mm

A2**304**

Hexagon Lock Nut

ANSI / ASME B18.2.2

UNC

XLN

Size (d)	m max.	s max.	e max.	Part Number	Std Pack
1/4"	0.19	0.50	0.58	XLNA214UNC	100
5/16"	0.22	0.56	0.65	XLNA2514UNC	100
3/8"	0.25	0.69	0.79	XLNA238UNC	100
7/16"	0.29	0.75	0.87	XLNA2716UNC	50
1/2"	0.32	0.88	1.01	XLNA212UNC	50
5/8"	0.38	1.06	1.23	XLNA258UNC	50
3/4"	0.45	1.25	1.44	XLNA234UNC	50
7/8"	0.51	1.44	1.66	XLNA278UNC	25
1"	0.58	1.63	1.88	XLNA21UNC	25

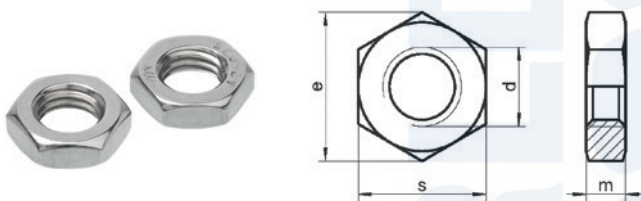
All measurements are in inches

A4**316**

Hexagon Lock Nut

ANSI / ASME B18.2.2

UNC

XLN

Size (d)	m max.	s max.	e max.	Part Number	Std Pack
1/4"	0.19	0.50	0.58	XLNA414UNC	100
5/16"	0.22	0.56	0.65	XLNA4514UNC	100
3/8"	0.25	0.69	0.79	XLNA438UNC	100
7/16"	0.29	0.75	0.87	XLNA4716UNC	50
1/2"	0.32	0.88	1.01	XLNA412UNC	50
5/8"	0.38	1.06	1.23	XLNA458UNC	50
3/4"	0.45	1.25	1.44	XLNA434UNC	50
7/8"	0.51	1.44	1.66	XLNA478UNC	25
1"	0.58	1.63	1.88	XLNA41UNC	25

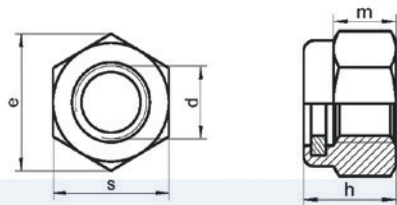
All measurements are in inches

XNN

Nylon Insert Lock Nut

DIN 985 ISO 7040

METRIC

A2**304**

Size (d)	m min.	h max.	s max.	e min.	Part Number	Std Pack
M3	2.40	4.00	5.50	6.01	XNNA2M3	200
M4	2.90	5.00	7.00	7.66	XNNA2M4	100
M5	3.20	5.00	8.00	8.79	XNNA2M5	100
M6	4.00	6.00	10.00	11.05	XNNA2M6	100
M8	5.50	8.00	13.00	14.38	XNNA2M8	100
M10	6.50	10.00	17.00	18.90	XNNA2M10	100
M12	8.00	12.00	19.00	21.10	XNNA2M12	100
M14	9.50	14.00	22.00	24.49	XNNA2M14	50
M16	10.50	16.00	24.00	26.75	XNNA2M16	50
M20	14.00	20.00	30.00	32.95	XNNA2M20	25
M24	15.00	24.00	36.00	39.55	XNNA2M24	25

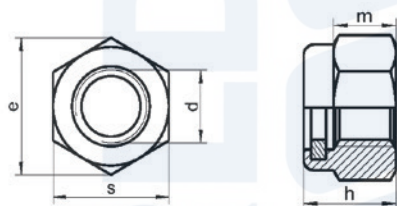
All measurements are in mm

XNN

Nylon Insert Lock Nut

DIN 985 ISO 7040

METRIC

A4**316**

Size (d)	m min.	h max.	s max.	e min.	Part Number	Std Pack
M3	2.40	4.00	5.50	6.01	XNNA4M3	100
M4	2.90	5.00	7.00	7.66	XNNA4M4	100
M5	3.20	5.00	8.00	8.79	XNNA4M5	100
M6	4.00	6.00	10.00	11.05	XNNA4M6	100
M8	5.50	8.00	13.00	14.38	XNNA4M8	100
M10	6.50	10.00	17.00	18.90	XNNA4M10	100
M12	8.00	12.00	19.00	21.10	XNNA4M12	100
M14	9.50	14.00	22.00	24.49	XNNA4M14	50
M16	10.50	16.00	24.00	26.75	XNNA4M16	50
M18	13.00	18.50	27.00	29.56	XNNA4M18	50
M20	14.00	20.00	30.00	32.95	XNNA4M20	25
M22	15.00	22.00	32.00	35.03	XNNA4M22	25
M24	15.00	24.00	36.00	39.55	XNNA4M24	25
M27	17.00	27.00	41.00	45.20	XNNA4M27	20
M30	19.00	30.00	46.00	50.85	XNNA4M30	10
M33	22.00	33.00	50.00	55.37	XNNA4M33	5
M36	25.00	36.00	55.00	60.79	XNNA4M36	5

All measurements are in mm

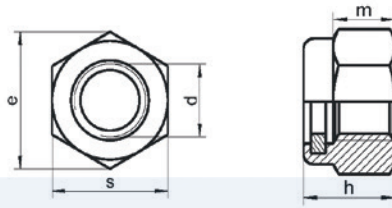
A2**304**

Nylon Insert Lock Nut

XNN

IFI 100 / 107

UNC



Size (d)	m max.	h max.	s max.	e max.	Part Number	Std Pack
8-32	0.14	0.22	0.35	0.37	XNNA2832UNC	100
10-24	0.14	0.23	0.38	0.41	XNNA21024UNC	100
1/4	0.23	0.30	0.44	0.48	XNNA214UNC	100
5/16	0.25	0.33	0.50	0.55	XNNA2516UNC	100
3/8	0.32	0.44	0.56	0.70	XNNA238UNC	100
7/16	0.32	0.44	0.63	0.70	XNNA2716UNC	50
1/2	0.46	0.58	0.75	0.84	XNNA212UNC	100
5/8	0.59	0.74	0.94	1.05	XNNA258UNC	50
3/4	0.74	0.86	1.06	1.19	XNNA234UNC	25
7/8	0.79	0.97	1.25	1.40	XNNA278UNC	25
1	0.83	1.02	1.44	1.62	XNNA21UNC	25

All measurements are in inches

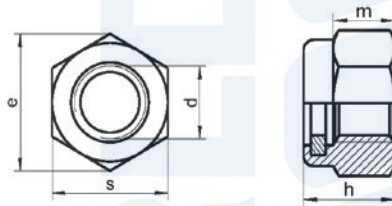
A4**316**

Nylon Insert Lock Nut

XNN

IFI 100 / 107

UNC



Size (d)	m max.	h max.	s max.	e max.	Part Number	Std Pack
10-24	0.14	0.23	0.38	0.41	XNNA41024UNC	100
1/4	0.23	0.30	0.44	0.48	XNNA414UNC	100
5/16	0.25	0.33	0.50	0.55	XNNA4516UNC	100
3/8	0.32	0.44	0.56	0.70	XNNA438UNC	100
7/16	0.32	0.44	0.63	0.70	XNNA4716UNC	50
1/2	0.46	0.58	0.75	0.84	XNNA412UNC	100
5/8	0.59	0.74	0.94	1.05	XNNA458UNC	50
3/4	0.74	0.86	1.06	1.19	XNNA434UNC	25
7/8	0.79	0.97	1.25	1.40	XNNA478UNC	25
1	0.83	1.02	1.44	1.62	XNNA41UNC	25

All measurements are in inches

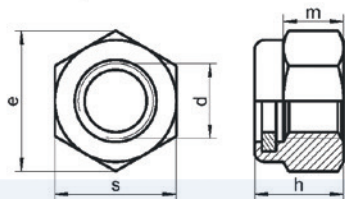
XIW

Hex Inox Loch Nut - Stainless Insert

A2

304

METRIC



Size (d)	m	h	s	e	Part Number	Std Pack
M4	2.90	5.00	7.00	7.66	XIWA2M4	100
M5	3.20	5.00	8.00	8.79	XIWA2M5	100
M6	4.00	6.00	10.00	11.05	XIWA2M6	100
M8	5.50	8.00	13.00	14.38	XIWA2M8	100
M10	6.50	10.00	17.00	18.90	XIWA2M10	100
M12	8.00	12.00	19.00	21.10	XIWA2M12	50
M16	10.50	16.00	24.00	26.75	XIWA2M16	25
M20	14.00	20.00	30.00	32.95	XIWA2M20	25

All measurements are in mm

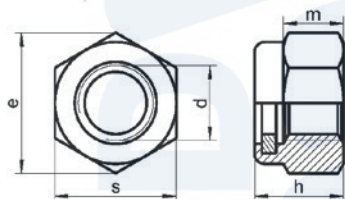
XIW

Hex Inox Loch Nut - Stainless Insert

A4

316

METRIC



Size (d)	m	h	s	e	Part Number	Std Pack
M4	2.90	5.00	7.00	7.66	XIWA4M4	100
M5	3.20	5.00	8.00	8.79	XIWA4M5	100
M6	4.00	6.00	10.00	11.05	XIWA4M6	100
M8	5.50	8.00	13.00	14.38	XIWA4M8	100
M10	6.50	10.00	17.00	18.90	XIWA4M10	100
M12	8.00	12.00	19.00	21.10	XIWA4M12	50
M16	10.50	16.00	24.00	26.75	XIWA4M16	25
M20	14.00	20.00	30.00	32.95	XIWA4M20	25

All measurements are in mm

XCN

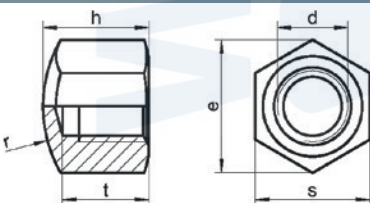
Hexagon Cap Nut

A2

304

METRIC

DIN 917



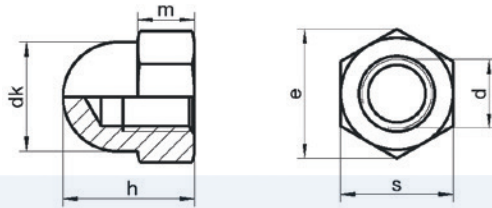
Size (d)	h max.	s max.	e min.	r ≈	t min.	Part Number	Std Pack
M4	5.50	7.00	7.66	8.00	4.16	XCNA2M4	200
M5	7.00	8.00	8.79	10.00	4.96	XCNA2M5	100
M6	9.00	10.00	11.05	12.00	6.71	XCNA2M6	100
M8	12.00	13.00	14.38	15.00	9.21	XCNA2M8	100
M10	14.00	16.00	18.90	20.00	10.65	XCNA2M10	100
M12	16.00	18.00	21.10	25.00	13.15	XCNA2M12	50

All measurements are in mm

A2**304****Dome Nut - 1 Piece**

DIN 1587

METRIC

DNU

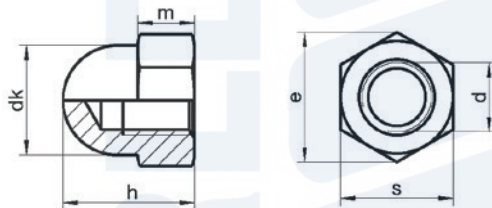
Size (d)	m max.	h max.	s max.	e min.	dk max.	Part Number	Std Pack
M3	2.40	6.00	5.50	6.08	5.50	DNUA2M3	100
M4	3.20	8.00	7.00	7.66	6.50	DNUA2M4	100
M5	4.00	10.00	8.00	8.79	7.50	DNUA2M5	100
M6	5.00	12.00	10.00	11.05	9.50	DNUA2M6	100
M8	6.50	15.00	13.00	14.38	12.50	DNUA2M8	100
M10	8.00	18.00	17.00	18.90	16.00	DNUA2M10	100
M12	10.00	22.00	19.00	21.10	18.00	DNUA2M12	50
M14	11.00	25.00	22.00	24.49	21.00	DNUA2M14	50
M16	13.00	28.00	24.00	26.75	23.00	DNUA2M16	50
M20	16.00	34.00	30.00	33.53	28.00	DNUA2M20	25
M24	19.00	42.00	36.00	39.98	34.00	DNUA2M24	25

All measurements are in mm

A4**316****Dome Nut - 1 Piece**

DIN 1587

METRIC

DNU

Size (d)	m max.	h max.	s max.	e min.	dk max.	Part Number	Std Pack
M3	2.40	6.00	5.50	6.08	5.50	DNUA4M3	100
M4	3.20	8.00	7.00	7.66	6.50	DNUA4M4	100
M5	4.00	10.00	8.00	8.79	7.50	DNUA4M5	100
M6	5.00	12.00	10.00	11.05	9.50	DNUA4M6	100
M8	6.50	15.00	13.00	14.38	12.50	DNUA4M8	100
M10	8.00	18.00	17.00	18.90	16.00	DNUA4M10	100
M12	10.00	22.00	19.00	21.10	18.00	DNUA4M12	50
M14	11.00	25.00	22.00	24.49	21.00	DNUA4M14	50
M16	13.00	28.00	24.00	26.75	23.00	DNUA4M16	50
M20	16.00	34.00	30.00	33.53	28.00	DNUA4M20	25
M24	19.00	42.00	36.00	39.98	34.00	DNUA4M24	25

All measurements are in mm

WNU

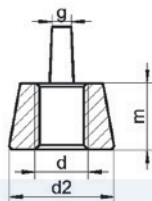
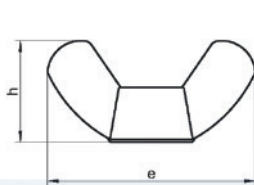
Wing Nut

DIN 315

METRIC

A2

304



Size (d)	m	h	e	d2	g	Part Number	Std Pack
M3	2.90	8.60	17.60	8.00	1.20	WNUA2M3	100
M4	2.90	8.60	17.60	8.00	1.60	WNUA2M4	100
M5	4.10	11.00	22.50	10.30	2.10	WNUA2M5	100
M6	5.10	13.60	27.80	12.70	2.50	WNUA2M6	100
M8	5.60	14.80	30.30	13.80	2.80	WNUA2M8	100
M10	6.80	17.30	36.20	16.50	3.30	WNUA2M10	100
M12	9.00	22.30	49.40	22.50	4.50	WNUA2M12	50
M16	10.70	30.80	58.30	26.60	6.30	WNUA2M16	25

All measurements are in mm

WNU

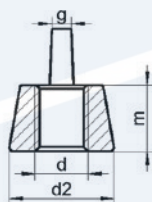
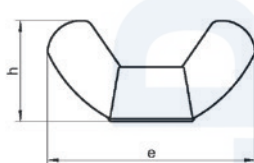
Wing Nut

DIN 315

METRIC

A4

316



Size (d)	m	h	e	d2	g	Part Number	Std Pack
M3	2.90	8.60	17.60	8.00	1.20	WNUA4M3	100
M4	2.90	8.60	17.60	8.00	1.60	WNUA4M4	100
M5	4.10	11.00	22.50	10.30	2.10	WNUA4M5	100
M6	5.10	13.60	27.80	12.70	2.50	WNUA4M6	100
M8	5.60	14.80	30.30	13.80	2.80	WNUA4M8	100
M10	6.80	17.30	36.20	16.50	3.30	WNUA4M10	100
M12	9.00	22.30	49.40	22.50	4.50	WNUA4M12	50
M16	10.70	30.80	58.30	26.60	6.30	WNUA4M16	25

All measurements are in mm

Did you know?

Stainless Steel can still corrode

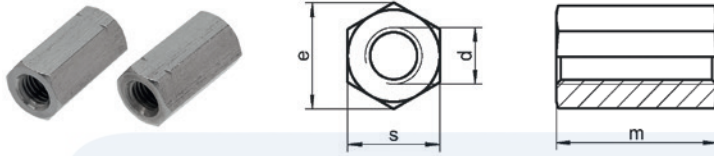
Stainless steel is prized for its corrosion resistance. Beyond that many don't know anything about it. Stainless steel comes in many different grades, 304, 305 and 316 are just a few examples and each come with their own benefits. If you are within 30 kilometers of the beach for example, you need to make sure you use 316 stainless steel.

A4**316**

Hexagon Coupling Nut

DIN 6334

METRIC

CNU

Size (d)	m	s	e	Part Number	Std Pack
M5	15.00	8.00	9.00	CNUA4M5	1
M6	18.00	10.00	11.10	CNUA4M6	1
M8	24.00	13.00	15.00	CNUA4M8	1
M10	30.00	17.00	19.60	CNUA4M10	1
M12	36.00	19.00	21.90	CNUA4M12	1
M16	48.00	24.00	27.70	CNUA4M16	1
M20	60.00	30.00	34.60	CNUA4M20	1
M24	72.00	36.00	41.60	CNUA4M24	1
M30	90.00	46.00	53.10	CNUA4M30	1

All measurements are in mm

Did you know?

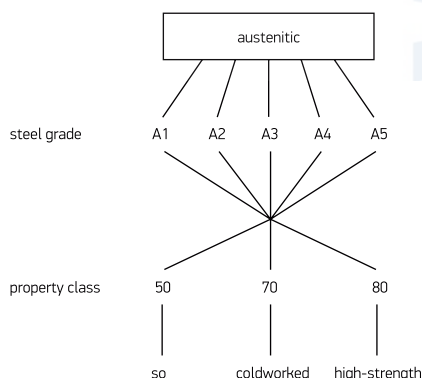
A coupling nut is typically a metal fastener which is threaded on the inside

It is designed to secure two parts together by screwing the coupling nut onto the outside of another part, often a threaded rod. The outside of a coupling nut is usually hex shaped so that a wrench can tighten or loosen it.

Stainless Steel Grades

Labelling system for grades of stainless steels and their strength classes

Stainless steels divide into three groups of steels — austenitic, ferritic and martensitic. Austenitic steel is by far the commonest and offers the greatest scope for use. The steel groups and strength classes are designated by a four-digit sequence of letters and numbers as shown in the following example. DIN EN ISO 3506 governs screws and nuts made from stainless steel.



Example: A2 - 80

A = austenitic steel

2 = type of alloy within group A

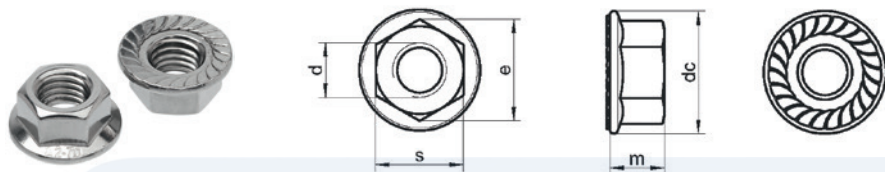
80 = tensile strength of at least 800 N/mm², cold work hardened

XFN

Hexagon Flange Nut

DIN 6923 ISO 1661

METRIC

A2**304**

Size (d)	dc max.	m min.	s max.	e min.	Part Number	Std Pack
M4	10.00	4.65	7.00	7.66	XFNA2M4	100
M5	11.80	4.70	8.00	8.79	XFNA2M5	100
M6	14.20	5.70	10.00	11.05	XFNA2M6	100
M8	17.90	7.64	13.00	14.38	XFNA2M8	100
M10	21.80	9.84	15.00	17.77	XFNA2M10	100
M12	26.00	11.57	18.00	20.03	XFNA2M12	100

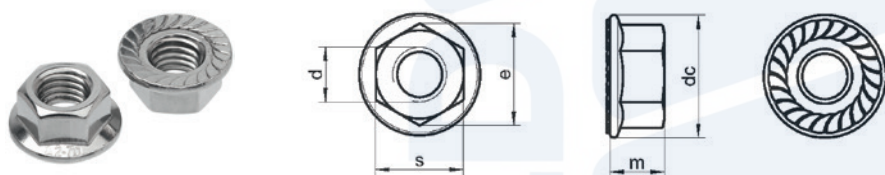
All measurements are in mm

XFN

Hexagon Flange Nut

DIN 6923 ISO 1661

METRIC

A4**316**

Size (d)	dc max.	m min.	s max.	e min.	Part Number	Pack
M4	10.00	4.65	7.00	7.66	XFNA4M4	100
M5	11.80	4.70	8.00	8.79	XFNA4M5	100
M6	14.20	5.70	10.00	11.05	XFNA4M6	100
M8	17.90	7.64	13.00	14.38	XFNA4M8	100
M10	21.80	9.84	15.00	17.77	XFNA4M10	100
M12	26.00	11.57	18.00	20.03	XFNA4M12	100

All measurements are in mm

Did you know?

Serrated flange nuts are hex flange nuts with a serrated bearing surface

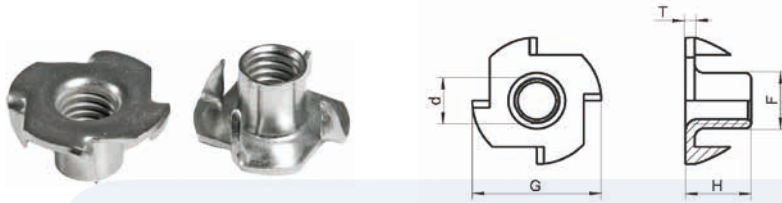
The nut turns freely until the serrations contact and displace material on the mating surface as the nut is tightened; less torque is needed to install than remove because the gripping action of the serrations create a ratchet-type locking feature that is resistant to vibration.

A2**304**

Tee Nut 4-Prong Type

DIN 1624

METRIC

TNU

Size (d)	G	F	T	H	Part Number	Std Pack
M6	19.00	7.50	1.20	9.00	TNUA2M6	100
M8	22.00	10.00	1.50	11.00	TNUA2M8	100
M10	25.00	12.00	1.80	12.00	TNUA2M10	100

All measurements are in mm

A2**304**

Tee Nut 4-Prong Type

UNC

TNU

Size (d)	d2	d1	Prong Height	h1	Part Number	Std Pack
10-24"	0.75	0.24	0.22	0.31	TNUA21024UNC	100
1/4"	0.75	0.36	0.22	0.31	TNUA214UNC	100
5/16"	0.75	0.39	0.25	0.38	TNUA2516UNC	100
3/8"	1.00	0.52	0.34	0.44	TNUA238UNC	100

All measurements are in inches

Fastener Materials and Coatings

Alloy steel is highly hardened and usually black oxide and/or oil coated, offering little corrosion resistance.

Brass and bronze are copper alloys with good corrosion resistance. More expensive than steel, these materials are typically used for decorative applications.

Zinc Plated steel is shiny and typically 3 microns thick, where you only need superficial protection, indoors in a dry climate (and want the aesthetic value) go for zinc plating.

Chrome and nickel plated steel are smooth and polished for appearance. The plating offers moderate corrosion resistance.

Stainless steel offers good corrosion resistance, making it suitable for outdoor and marine applications.

Hot-dipped galvanised steel has a thicker zinc coating for better corrosion resistance, making it suitable for outdoor use. Because of the thick plating 50 microns, only galvanised nuts and washers will fit galvanised bolts.

FRW

Flat Round Washer

A2

304

METRIC



Size (d)	d1	d2	h	Part Number	Std Pack
M5	5.30	10.00	0.80	FRWA2M5	200
M6	6.40	12.50	1.20	FRWA2M6	100
M8	8.40	17.00	1.20	FRWA2M8	100
M10	10.50	21.00	1.20	FRWA2M10	100
M12	13.00	24.00	1.50	FRWA2M12	100
M14	15.00	28.00	1.50	FRWA2M14	100
M16	17.00	30.00	1.50	FRWA2M16	100
M20	21.00	37.00	2.00	FRWA2M20	100
M24	25.00	44.00	3.00	FRWA2M24	50
M30	31.00	56.00	3.00	FRWA2M30	20

All measurements are in mm

FRW

Flat Round Washer

A4

316

METRIC



Size (d)	d1	d2	h	Part Number	Std Pack
M5	5.30	10.00	0.80	FRWA4M5	200
M6	6.40	12.50	1.20	FRWA4M6	100
M8	8.40	17.00	1.20	FRWA4M8	100
M10	10.50	21.00	1.20	FRWA4M10	100
M12	13.00	24.00	1.50	FRWA4M12	100
M14	15.00	28.00	1.50	FRWA4M14	100
M16	17.00	30.00	1.50	FRWA4M16	100
M20	21.00	37.00	2.00	FRWA4M20	100
M24	25.00	44.00	3.00	FRWA4M24	50
M27	28.00	50.00	3.00	FRWA4M27	25
M30	31.00	56.00	3.00	FRWA4M30	20
M33	34.00	60.00	3.00	FRWA4M33	20
M36	37.00	66.00	5.00	FRWA4M36	10

All measurements are in mm

A2**304**

Flat Round Washer

FRW

IMPERIAL



Size (d)	d2	h	Part Number	Std Pack
1/8	5/16	G22	FRWA218X516	200
1/8	3/8	G20	FRWA218X38	200
5/32	3/8	G20	FRWA2532X38	200
5/32	7/16	G20	FRWA2532X716	200
3/16	7/16	G20	FRWA2316X716	200
3/16	1/2	G20	FRWA2316X12	100
3/16	3/4	G18	FRWA2316X34	100
3/16	7/8	G18	FRWA2316X78	100
3/16	1	G16	FRWA2316X1	100
3/16	1 1/4	G16	FRWA2316X114	100
1/4	1/2	G18	FRWA214X12	100
1/4	9/16	G18	FRWA214X916	100
1/4	5/8	G18	FRWA214X58	100
1/4	3/4	G18	FRWA214X34	100
1/4	7/8	G18	FRWA214X78	100
1/4	1	G16	FRWA214X1	100
1/4	1 1/4	G16	FRWA214X114	100
5/16	5/8	G18	FRWA2516X58	100
5/16	3/4	G18	FRWA2516X34	100
5/16	1	G16	FRWA2516X1	100
5/16	1 1/4	G16	FRWA2516X114	100
3/8	3/4	G18	FRWA238X34	100
3/8	7/8	G18	FRWA238X78	100
3/8	1	G16	FRWA238X1	100
3/8	1 1/4	G16	FRWA238X114	100
3/8	1 1/2	G14	FRWA238X112	100
3/8	2	G14	FRWA238X2	100
7/16	1 1/8	G16	FRWA2716X118	100
1/2	1	G16	FRWA212X1	100
1/2	1 1/4	G14	FRWA212X114	100
1/2	2	G14	FRWA212X2	50
5/8	1 1/4	G16	FRWA258X114	100
5/8	1 1/2	G14	FRWA258X112	100
3/4	1 1/2	G14	FRWA234X112	100
3/4	1 7/8	G14	FRWA234X178	100
7/8	1 5/8	G14	FRWA478X158	50
7/8	2	G10	FRWA278X2	50
1	1 7/8	G12	FRWA21X178	50
1	2	G10	FRWA21X2	50
1	2 1/2	G10	FRWA21X212	25

All measurements are in inches

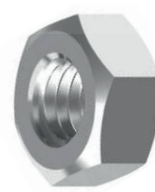
Nut And Washer sizes

Nut and washer sizes indicate **the screw or bolt they fit**. For example:

3/8" Hex Bolt



3/8" Washer



3/8" Nut



Size (d)	d2	h	Part Number	Std Pack
1/8	5/16	G22	FRWA418X516	200
1/8	3/8	G20	FRWA418X38	200
5/32	3/8	G20	FRWA4532X38	200
5/32	7/16	G20	FRWA4532X716	200
3/16	7/16	G20	FRWA4316X716	200
3/16	1/2	G20	FRWA4316X12	100
3/16	3/4	G18	FRWA4316X34	100
3/16	7/8	G18	FRWA4316X78	100
3/16	1	G16	FRWA4316X1	100
3/16	1 1/4	G16	FRWA4316X114	100
1/4	1/2	G18	FRWA414X12	100
1/4	9/16	G18	FRWA414X916	100
1/4	5/8	G18	FRWA414X58	100
1/4	3/4	G18	FRWA414X34	100
1/4	7/8	G18	FRWA414X78	100
1/4	1	G16	FRWA414X1	100
1/4	1 1/4	G16	FRWA414X114	100
5/16	5/8	G18	FRWA4516X58	100
5/16	3/4	G18	FRWA4516X34	100
5/16	1	G16	FRWA4516X1	100
5/16	1 1/4	G16	FRWA4516X114	100
3/8	3/4	G18	FRWA438X34	100
3/8	7/8	G18	FRWA438X78	100
3/8	1	G16	FRWA438X1	100
3/8	1 1/4	G16	FRWA438X114	100
3/8	1 1/2	G14	FRWA438X112	100
3/8	2	G14	FRWA438X2	100
7/16	1 1/8	G16	FRWA4716X118	100
1/2	1	G16	FRWA412X1	100
1/2	1 1/4	G14	FRWA412X114	100
1/2	2	G14	FRWA412X2	50
5/8	1 1/4	G16	FRWA458X114	100
5/8	1 1/2	G14	FRWA458X112	100
3/4	1 1/2	G14	FRWA434X112	100
3/4	1 7/8	G14	FRWA434X178	100
7/8	1 5/8	G14	FRWA478X158	50
7/8	2	G10	FRWA478X2	50
1	1 7/8	G12	FRWA41X178	50
1	2	G10	FRWA41X2	50
1	2 1/2	G10	FRWA41X212	25
1 1/8	2 1/2	G10	FRWA4118X212	25
1 1/4	2 3/4	G10	FRWA4114X234	25
1 1/2	3 1/4	G10	FRWA4112X314	25

All measurements are in inches

Did you know?

Stainless Steel can be made into “soap”

Many reputable manufacturers produce stainless steel soap, which is essentially a piece of stainless steel in the shape of a soap bar. While stainless steel soap does not kill germs or other bacteria like regular soap would, stainless steel soap can neutralize strong odours on the hands. Simply rub the bar on your hands after handling garlic, onion, or fish. The smell should disappear. Why does stainless steel have this unique property? Some researchers hypothesize that the stainless-steel binds to sulfur compounds in various substances, which reduces odours.

A2**304**

Flat Round Washer

DIN 125A ISO 7089 / 7090

METRIC

FWA

Size (d)	d1	d2	h	Part Number	Std Pack
M2	2.20	5.00	0.30	FWAA2M2	200
M2.5	2.70	6.00	0.50	FWAA2M25	200
M3	3.20	7.00	0.50	FWAA2M3	200
M4	4.30	9.00	0.80	FWAA2M4	200
M5	5.30	10.00	1.00	FWAA2M5	200
M6	6.40	12.00	1.60	FWAA2M6	100
M8	8.40	16.00	1.60	FWAA2M8	100
M10	10.50	20.00	2.00	FWAA2M10	100
M12	13.00	24.00	2.50	FWAA2M12	100
M14	15.00	28.00	2.50	FWAA2M14	100
M16	17.00	30.00	3.00	FWAA2M16	100
M20	21.00	37.00	3.00	FWAA2M20	100
M24	25.00	44.00	4.00	FWAA2M24	50

All measurements are in mm

A4**316**

Flat Round Washer

DIN 125A ISO 7089 / 7090

METRIC

FWA

Size (d)	d1	d2	h	Part Number	Std Pack
M2	2.20	5.00	0.30	FWAA4M2	200
M2.5	2.70	6.00	0.50	FWAA4M25	200
M3	3.20	7.00	0.50	FWAA4M3	200
M4	4.30	9.00	0.80	FWAA4M4	200
M5	5.30	10.00	1.00	FWAA4M5	200
M6	6.40	12.00	1.60	FWAA4M6	100
M8	8.40	16.00	1.60	FWAA4M8	100
M10	10.50	20.00	2.00	FWAA4M10	100
M12	13.00	24.00	2.50	FWAA4M12	100
M14	15.00	28.00	2.50	FWAA4M14	100
M16	17.00	30.00	3.00	FWAA4M16	100
M18	19.00	34.00	3.00	FWAA4M18	100
M20	21.00	37.00	3.00	FWAA4M20	100
M22	23.00	39.00	3.00	FWAA4M22	100
M24	25.00	44.00	4.00	FWAA4M24	50
M39	40.00	56.00	6.00	FWAA4M39	10
M42	43.00	60.00	7.00	FWAA4M42	10
M48	50.00	66.00	8.00	FWAA4M48	10

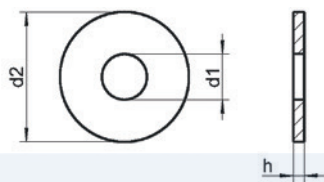
All measurements are in mm

FWM

Flat Round Mudguard Washer

DIN 9021 ISO 7093-1

METRIC

A2**304**

Size (d)	d1	d2	h	Part Number	Std Pack
M3	3.20	9.00	0.80	FWMA2M3	200
M4	4.30	12.00	1.00	FWMA2M4	200
M5	5.30	15.00	1.20	FWMA2M5	100
M6	6.40	18.00	1.60	FWMA2M6	100
M8	8.40	24.00	2.00	FWMA2M8	100
M10	10.50	30.00	2.50	FWMA2M10	100
M12	13.00	37.00	3.00	FWMA2M12	100
M14	15.00	44.00	3.00	FWMA2M14	100
M16	17.00	50.00	3.00	FWMA2M16	50
M20	22.00	60.00	4.00	FWMA2M20	50
M24	26.00	72.00	5.00	FWMA2M24	50
M30	33.00	92.00	6.00	FWMA2M30	20

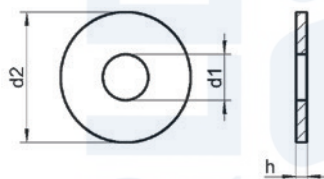
All measurements are in mm

FWM

Flat Round Mudguard Washer

DIN 9021 ISO 7093-1

METRIC

A4**316**

Size (d)	d1	d2	h	Part Number	Std Pack
M3	3.20	9.00	0.80	FWMA4M3	200
M4	4.30	12.00	1.00	FWMA4M4	200
M5	5.30	15.00	1.20	FWMA4M5	100
M6	6.40	18.00	1.60	FWMA4M6	100
M8	8.40	24.00	2.00	FWMA4M8	100
M10	10.50	30.00	2.50	FWMA4M10	100
M12	13.00	37.00	3.00	FWMA4M12	100
M14	15.00	44.00	3.00	FWMA4M14	50
M16	17.00	50.00	3.00	FWMA4M16	50
M18	20.00	56.00	4.00	FWMA4M18	50
M20	22.00	60.00	4.00	FWMA4M20	50
M24	26.00	72.00	5.00	FWMA4M24	50
M30	33.00	92.00	6.00	FWMA4M30	20

All measurements are in mm

A2**304**

Flat Round Washer - Small O.D

DIN 433 ISO 7092

METRIC

FWS

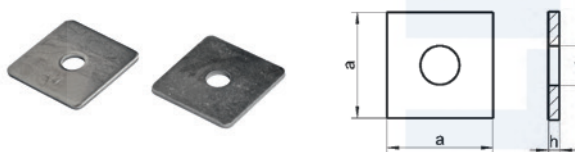
Size (d)	d1	d2	h	Part Number	Std Pack
M2	2.20	4.50	0.50	FWSA2M2	200
M2.5	2.70	5.00	0.50	FWSA2M25	200
M3	3.20	6.00	0.50	FWSA2M3	200
M4	4.30	8.00	0.50	FWSA2M4	200
M5	5.30	9.00	1.00	FWSA2M5	200
M6	6.40	11.00	1.60	FWSA2M6	100
M8	8.40	15.00	1.60	FWSA2M8	100
M10	10.50	18.00	1.60	FWSA2M10	100
M12	13.00	20.00	2.00	FWSA2M12	100
M16	17.00	28.00	2.50	FWSA2M16	100
M20	21.00	34.00	3.00	FWSA2M20	50

All measurements are in mm

A4**316**

Flat Square Washer

METRIC

FSW

Size (d)	a	h	Part Number	Std Pack
M10	50.00	3.00	FSWA4M10X50X3	50
M12	50.00	3.00	FSWA4M12X50X3	50
M16	50.00	3.00	FSWA4M16X50X3	25
M20	50.00	3.00	FSWA4M20X50X3	25
M24	50.00	3.00	FSWA4M24X50X3	25
M10	50.00	4.00	FSWA4M10X50X4	50
M12	50.00	4.00	FSWA4M12X50X4	50
M16	50.00	4.00	FSWA4M16X50X4	25
M20	50.00	4.00	FSWA4M20X50X4	25
M24	50.00	4.00	FSWA4M24X50X4	25
M10	65.00	4.00	FSWA4M10X65X4	20
M12	65.00	4.00	FSWA4M12X65X4	20
M16	65.00	4.00	FSWA4M16X65X4	20
M20	65.00	4.00	FSWA4M20X65X4	20
M24	65.00	4.00	FSWA4M24X65X4	20
M10	65.00	5.00	FSWA4M10X65X5	20
M12	65.00	5.00	FSWA4M12X65X5	20
M16	65.00	5.00	FSWA4M16X65X5	20
M20	65.00	5.00	FSWA4M20X65X5	20
M24	65.00	5.00	FSWA4M24X65X5	20
M10	75.00	5.00	FSWA4M10X75X5	10
M12	75.00	5.00	FSWA4M12X75X5	10
M16	75.00	5.00	FSWA4M16X75X5	10
M20	75.00	5.00	FSWA4M20X75X5	10
M24	75.00	5.00	FSWA4M24X75X5	10
M10	75.00	6.00	FSWA4M10X75X6	10
M12	75.00	6.00	FSWA4M12X75X6	10
M16	75.00	6.00	FSWA4M16X75X6	10
M20	75.00	6.00	FSWA4M20X75X6	10
M24	75.00	6.00	FSWA4M24X75X6	10

All measurements are in mm

SWA

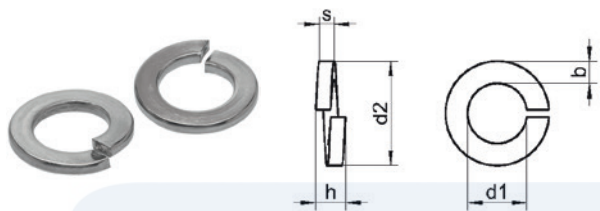
Spring Washer

DIN 127B

METRIC

A2

304



Size (d)	d1	d2	h	s	b	Part Number	Std Pack
M2	2.10	4.40	1.00	0.50	0.90	SWAA2M2	200
M2.5	2.60	5.10	1.20	0.60	1.00	SWAA2M25	200
M3	3.10	6.20	1.60	0.80	1.30	SWAA2M3	200
M4	4.10	7.60	1.80	0.90	1.50	SWAA2M4	200
M5	5.10	9.20	2.40	1.20	1.80	SWAA2M5	200
M6	6.10	11.80	3.20	1.60	2.50	SWAA2M6	100
M8	8.10	14.80	4.00	2.00	3.00	SWAA2M8	100
M10	10.20	18.10	4.40	2.20	3.50	SWAA2M10	100
M12	12.20	21.10	5.00	2.50	4.00	SWAA2M12	100
M14	14.20	24.10	6.00	3.00	4.50	SWAA2M14	100
M16	16.20	27.40	7.00	3.50	5.00	SWAA2M16	100
M20	20.20	33.60	8.00	4.00	6.00	SWAA2M20	100
M24	24.50	40.00	10.00	5.00	7.00	SWAA2M24	50

All measurements are in mm

SWA

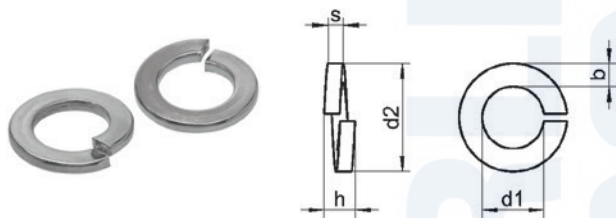
Spring Washer

DIN 127B

METRIC

A4

316



Size (d)	d1	d2	h	s	b	Part Number	Std Pack
M2	2.10	4.40	1.00	0.50	0.90	SWAA4M2	200
M2.5	2.60	5.10	1.20	0.60	1.00	SWAA4M25	200
M3	3.10	6.20	1.60	0.80	1.30	SWAA4M3	200
M4	4.10	7.60	1.80	0.90	1.50	SWAA4M4	200
M5	5.10	9.20	2.40	1.20	1.80	SWAA4M5	200
M6	6.10	11.80	3.20	1.60	2.50	SWAA4M6	100
M8	8.10	14.80	4.00	2.00	3.00	SWAA4M8	100
M10	10.20	18.10	4.40	2.20	3.50	SWAA4M10	100
M12	12.20	21.10	5.00	2.50	4.00	SWAA4M12	100
M14	14.20	24.10	6.00	3.00	4.50	SWAA4M14	100
M16	16.20	27.40	7.00	3.50	5.00	SWAA4M16	100
M18	18.20	29.40	7.00	3.50	5.00	SWAA4M18	100
M20	20.20	33.60	8.00	4.00	6.00	SWAA4M20	100
M22	22.50	35.90	8.00	4.00	6.00	SWAA4M22	50
M24	24.50	40.00	10.00	5.00	7.00	SWAA4M24	50
M27	27.50	43.00	10.00	5.00	7.00	SWAA4M27	25
M30	30.50	48.20	12.00	6.00	8.00	SWAA4M30	25
M33	33.50	55.20	12.00	6.00	10.00	SWAA4M33	25
M36	36.50	58.20	12.00	6.00	10.00	SWAA4M36	25

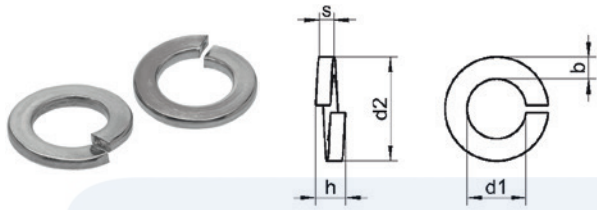
All measurements are in mm

A2**304**

Spring Washer

SWA

IMPERIAL



Size (d)	d2	s	b	Part Number	Std Pack
1/8	0.24	0.03	0.05	SWAA218	200
5/32	0.29	0.04	0.06	SWAA2532	200
3/16	0.33	0.05	0.62	SWAA2316	200
1/4	0.49	0.06	0.11	SWAA214	100
5/16	0.59	0.08	0.13	SWAA2516	100
3/8	0.68	0.09	0.14	SWAA238	100
7/16	0.78	0.11	0.16	SWAA2716	100
1/2	0.87	0.13	0.17	SWAA212	100
5/8	1.08	0.16	0.20	SWAA258	100
3/4	1.27	0.19	0.23	SWAA234	100
7/8	1.46	0.22	0.27	SWAA278	50
1	1.66	0.25	0.30	SWAA21	50

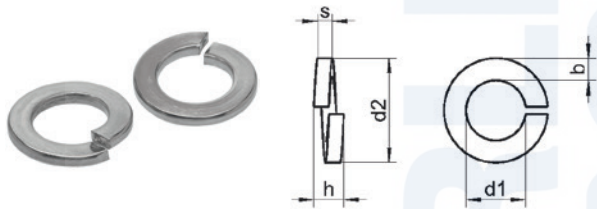
All measurements are in inches

A4**316**

Spring Washer

SWA

IMPERIAL



Size (d)	d2	s	b	Part Number	Std Pack
1/8	0.24	0.03	0.05	SWAA418	200
5/32	0.29	0.04	0.06	SWAA4532	200
3/16	0.33	0.05	0.62	SWAA4316	200
1/4	0.49	0.06	0.11	SWAA414	100
5/16	0.58	0.08	0.13	SWAA4516	100
3/8	0.68	0.09	0.14	SWAA438	100
7/16	0.78	0.11	0.16	SWAA4716	100
1/2	0.87	0.13	0.17	SWAA412	100
5/8	1.07	0.16	0.20	SWAA458	100
3/4	1.27	0.19	0.23	SWAA434	100
7/8	1.46	0.22	0.27	SWAA478	50
1	1.66	0.25	0.30	SWAA41	50
1-1/8	1.85	0.28	0.33	SWAA4118	25
1-1/4	2.04	0.31	0.36	SWAA4114	25
1-1/2	2.42	0.38	0.42	SWAA4112	25

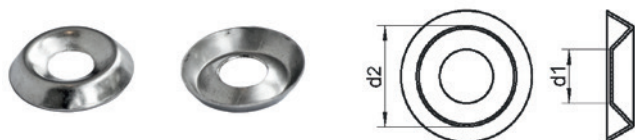
All measurements are in inches

CWA

Cup Washer

A2**304**

METRIC



Gauge	d1	d2	Part Number	Std Pack
6G	11.30	4.00	CWAA26G	100
8G	13.70	4.80	CWAA28G	100
10G	15.00	5.70	CWAA210G	100
12G	17.60	6.10	CWAA212G	100
14G	20.00	7.40	CWAA214G	100

All measurements are in mm

BWA

Belleville Washer

A2**304**

DIN 2093

METRIC



Size	d	d2	s	h	s+h	Part Number	Std Pack
M4	4.20	8.00	0.40	0.20	0.60	BWAA2M4	100
M5	5.20	10.00	0.50	0.25	0.75	BWAA2M5	100
M6	6.20	12.50	0.70	0.30	1.00	BWAA2M6	100
M8	8.20	16.00	0.90	0.35	1.25	BWAA2M8	100
M10	10.20	20.00	1.10	0.45	1.55	BWAA2M10	100
M12	12.20	25.00	1.50	0.55	2.05	BWAA2M12	100
M16	16.30	31.5	1.75	0.70	2.45	BWAA2M16	100
M20	20.40	40.00	2.25	0.90	3.15	BWAA2M20	100

All measurements are in mm

Common stainless steels and their chemical composition

	Material designation	Material no.	C %	Si ≤%	Mn ≤%	Cr %	Mo %	Ni %	Altri %
A2	X 5 Cr Ni 1810	1.4301	≤0.07	1.0	2.0	17.5 to 19.5	-	8.0 to 10.5	-
	X 2 Cr Ni 1811	1.4306	≤0.03	1.0	2.0	18.9 to 20.0	-	10.0 to 12.0	-
	X 8 Cr Ni 19/10	1.4303	≤0.07	1.0	2.0	17.0 to 19.0	-	11.0 to 13.0	-
A3	X 6 Cr Ni Ti 1811	1.4541	≤0.10	1.0	2.0	17.0 to 19.0	-	9.0 to 12.0	Ti ≥ 5 X % C
A4	X 5 Cr Ni Mo 1712	1.4401	≤0.07	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0	-
	X 5 Cr Ni Mo 1712	1.4401	≤0.03	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0	-
A5	X 6 Cr Ni Mo Ti 1712	1.4541	≤0.10	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.5 to 13.5	Ti ≥ 5 X % C

A2**304**

Crinkle Washer

BS 4463

METRIC

CRW

Size	d1	d2	s	Part Number	Std Pack
M2	2.30	4.60	0.53	CRWA2M2	100
M2.5	2.80	5.80	0.53	CRWA2M25	100
M3	3.32	6.40	0.61	CRWA2M3	100
M4	4.42	8.10	0.84	CRWA2M4	100
M5	5.42	9.20	0.89	CRWA2M5	100
M6	6.55	11.50	1.14	CRWA2M6	100
M8	8.55	15.00	1.40	CRWA2M8	100
M10	10.68	19.60	1.70	CRWA2M10	100

All measurements are in inches

A2**304**

Curved Washer

DIN 137A

METRIC

CUW

Size	d1	d2	s	Part Number	Std Pack
M3	3.20	6.00	0.40	CUWA2M3	100
M4	4.30	8.00	0.50	CUWA2M4	100
M5	5.30	10.00	0.50	CUWA2M5	100
M6	6.40	11.00	0.50	CUWA2M6	100

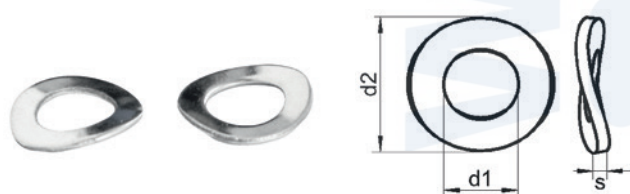
All measurements are in mm

A2**304**

Wave Washer

DIN 137B

METRIC

WAW

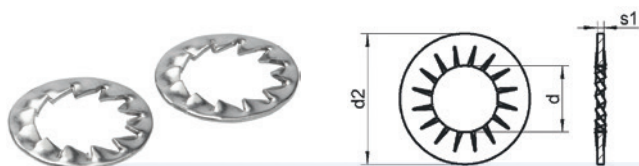
Size	d1	d2	s	Part Number	Std Pack
M3	3.20	8.00	0.50	WAWA2M3	100
M4	4.30	9.00	0.50	WAWA2M4	100
M5	5.30	11.00	0.50	WAWA2M5	100
M6	6.40	12.00	0.50	WAWA2M6	100
M8	8.40	15.00	0.80	WAWA2M8	100

All measurements are in mm

ILW**Tooth Lock Washer - Internal Serrated**

DIN 6798J

METRIC

A2**304**

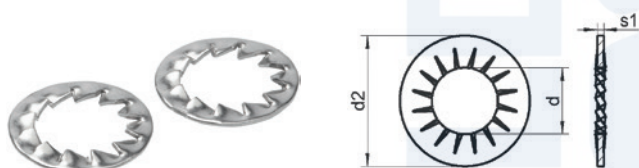
Size	d	d2	s1	Part Number	Std Pack
M3	3.20	6.00	0.40	ILWA2M3	500
M4	4.30	8.00	0.50	ILWA2M4	500
M5	5.30	10.00	0.60	ILWA2M5	200
M6	6.40	11.00	0.70	ILWA2M6	200
M8	8.40	15.00	0.80	ILWA2M8	200
M10	10.50	18.00	0.90	ILWA2M10	200
M12	13.00	20.50	1.00	ILWA2M12	100
M16	17.00	26.00	1.20	ILWA2M16	100
M20	21.00	33.00	1.40	ILWA2M20	50

All measurements are in mm

ILW**Tooth Lock Washer - Internal Serrated**

DIN 6798J

METRIC

A4**316**

Size	d	d2	s1	Part Number	Std Pack
M3	3.20	6.00	0.40	ILWA4M3	500
M4	4.30	8.00	0.50	ILWA4M4	500
M5	5.30	10.00	0.60	ILWA4M5	200
M6	6.40	11.00	0.70	ILWA4M6	200
M8	8.40	15.00	0.80	ILWA4M8	200
M10	10.50	18.00	0.90	ILWA4M10	200
M12	13.00	20.50	1.00	ILWA4M12	100

All measurements are in mm

Did you know?

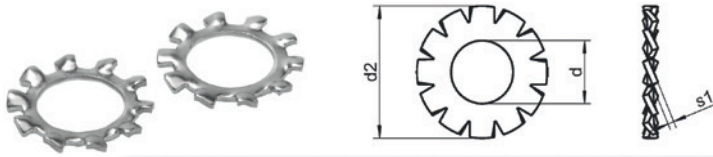
Tooth Lock Washers have serrations that extend radially inward or outward to bite into the bearing surface

This type of washer is especially effective as a lock washer when used with a soft substrate, such as aluminium or plastic, and can resist rotation more than a plain washer on hard surfaces, as the tension between washer and the surface is applied over a much smaller area (the teeth).

A2**304****Tooth Lock Washer - External Serrated**

DIN 6798A

METRIC

ELW

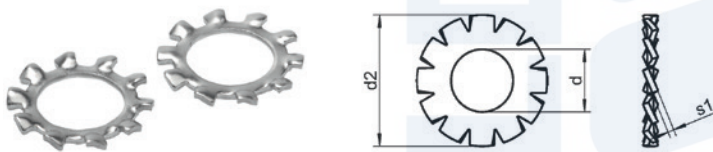
Size	d	d2	s1	Part Number	Std Pack
M3	3.20	6.00	0.40	ELWA2M3	500
M4	4.30	8.00	0.50	ELWA2M4	500
M5	5.30	10.00	0.60	ELWA2M5	200
M6	6.40	11.00	0.70	ELWA2M6	200
M8	8.40	15.00	0.80	ELWA2M8	200
M10	10.50	18.00	0.90	ELWA2M10	200
M12	13.00	20.50	1.00	ELWA2M12	100
M16	17.00	26.00	1.20	ELWA2M16	100
M20	21.00	33.00	1.40	ELWA2M20	25
M24	25.00	38.00	1.50	ELWA2M24	100
M30	31.00	48.00	1.60	ELWA2M30	100

All measurements are in mm

A4**316****Tooth Lock Washer - External Serrated**

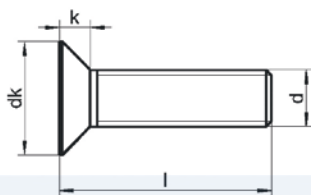
DIN 6798A

METRIC

ELW

Size	d	d2	s1	Part Number	Std Pack
M3	3.20	6.00	0.40	ELWA4M3	500
M4	4.30	8.00	0.50	ELWA4M4	500
M5	5.30	10.00	0.60	ELWA4M5	200
M6	6.40	11.00	0.70	ELWA4M6	200
M8	8.40	15.00	0.80	ELWA4M8	200
M10	10.50	18.00	0.90	ELWA4M10	200
M12	13.00	20.50	1.00	ELWA4M12	100

All measurements are in mm



dk max. k max. xr no.		3.80 1.20 P1	4.70 1.50 P1	5.60 1.65 P1	7.50 2.20 P2	9.20 2.50 P2	11.00 3.00 P3	14.50 4.00 P4
Length (l)	Size (d)	M2	M2.5	M3	M4	M5	M6	M8
4	Part Number	CPSA2M2X4	CPSA2M25X4	CPSA2M3X4				
	Std Pack	100	100	100				
5	Part Number	CPSA2M2X5	CPSA2M25X5	CPSA2M3X5				
	Std Pack	100	100	100				
6	Part Number	CPSA2M2X6	CPSA2M25X6	CPSA2M3X6	CPSA2M4X6	CPSA2M5X6		
	Std Pack	100	100	100	100	100		
8	Part Number	CPSA2M2X8	CPSA2M25X8	CPSA2M3X8	CPSA2M4X8	CPSA2M5X8	CPSA2M6X8	
	Std Pack	100	100	100	100	100	100	
10	Part Number	CPSA2M2X10	CPSA2M25X10	CPSA2M3X10	CPSA2M4X10	CPSA2M5X10	CPSA2M6X10	CPSA2M8X10
	Std Pack	100	100	100	100	100	100	100
12	Part Number	CPSA2M2X12	CPSA2M25X12	CPSA2M3X12	CPSA2M4X12	CPSA2M5X12	CPSA2M6X12	CPSA2M8X12
	Std Pack	100	100	100	100	100	100	100
16	Part Number	CPSA2M2X16	CPSA2M25X16	CPSA2M3X16	CPSA2M4X16	CPSA2M5X16	CPSA2M6X16	CPSA2M8X16
	Std Pack	100	100	100	100	100	100	100
20	Part Number	CPSA2M2X20	CPSA2M25X20	CPSA2M3X20	CPSA2M4X20	CPSA2M5X20	CPSA2M6X20	CPSA2M8X20
	Std Pack	100	100	100	100	100	100	100
25	Part Number	CPSA2M2X25	CPSA2M25X25	CPSA2M3X25	CPSA2M4X25	CPSA2M5X25	CPSA2M6X25	CPSA2M8X25
	Std Pack	100	100	100	100	100	100	100
30	Part Number			CPSA2M3X30	CPSA2M4X30	CPSA2M5X30	CPSA2M6X30	CPSA2M8X30
	Std Pack			100	100	100	100	100
35	Part Number			CPSA2M3X35	CPSA2M4X35	CPSA2M5X35	CPSA2M6X35	CPSA2M8X35
	Std Pack			100	100	100	100	100
40	Part Number			CPSA2M3X40	CPSA2M4X40	CPSA2M5X40	CPSA2M6X40	CPSA2M8X40
	Std Pack			100	100	100	100	100
45	Part Number					CPSA2M5X45	CPSA2M6X45	CPSA2M8X45
	Std Pack					100	100	100
50	Part Number			CPSA2M3X50	CPSA2M4X50	CPSA2M5X50	CPSA2M6X50	CPSA2M8X50
	Std Pack			100	100	100	100	100
55	Part Number						CPSA2M6X55	
	Std Pack						50	
60	Part Number				CPSA2M4X60	CPSA2M5X60	CPSA2M6X60	CPSA2M8X60
	Std Pack				100	50	50	50
65	Part Number					CPSA2M5X65	CPSA2M6X65	CPSA2M8X65
	Std Pack					50	50	50
70	Part Number					CPSA2M5X70	CPSA2M6X70	CPSA2M8X70
	Std Pack					50	50	50
75	Part Number					CPSA2M5X75	CPSA2M6X75	CPSA2M8X75
	Std Pack					50	50	50
80	Part Number					CPSA2M5X80	CPSA2M6X80	CPSA2M8X80
	Std Pack					50	50	50
90	Part Number						CPSA2M6X90	CPSA2M8X90
	Std Pack						50	50
100	Part Number					CPSA2M5X100	CPSA2M6X100	CPSA2M8X100
	Std Pack					50	50	50

All measurements are in mm

Did you know?

Machine screws are available in a wide array of configurations, materials, driver head types and sizes

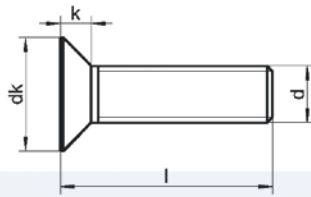
As their name implies, machine screws are used to fasten various components together in machines, tools, appliances, electronic devices and vehicles of every description.

A4**316**

Countersunk Phillips Metal Thread Screw

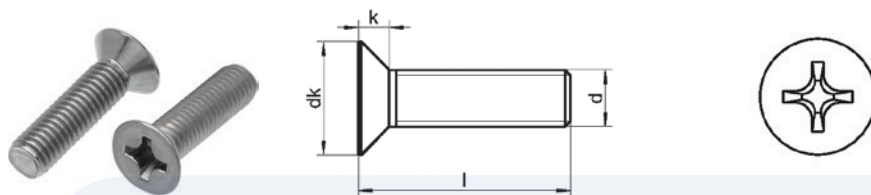
DIN 965 ISO 7046

METRIC

CPS

dk max. k max. xr no.		5.60 1.65 P1	7.50 2.20 P2	9.20 2.50 P2	11.00 3.00 P3	14.50 4.00 P4	18.00 5.00 P4
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10
6	Part Number	CPSA4M3X6	CPSA4M4X6				
	Std Pack	100	100				
8	Part Number	CPSA4M3X8	CPSA4M4X8				
	Std Pack	100	100				
10	Part Number	CPSA4M3X10	CPSA4M4X10	CPSA4M5X10	CPSA4M6X10		
	Std Pack	100	100	100	100		
12	Part Number	CPSA4M3X12	CPSA4M4X12	CPSA4M5X12	CPSA4M6X12		
	Std Pack	100	100	100	100		
16	Part Number	CPSA4M3X16	CPSA4M4X16	CPSA4M5X16	CPSA4M6X16	CPSA4M8X16	
	Std Pack	100	100	100	100	100	
20	Part Number	CPSA4M3X20	CPSA4M4X20	CPSA4M5X20	CPSA4M6X20	CPSA4M8X20	CPSA4M10X20
	Std Pack	100	100	100	100	100	50
25	Part Number	CPSA4M3X25	CPSA4M4X25	CPSA4M5X25	CPSA4M6X25	CPSA4M8X25	CPSA4M10X25
	Std Pack	100	100	100	100	100	50
30	Part Number	CPSA4M3X30	CPSA4M4X30	CPSA4M5X30	CPSA4M6X30	CPSA4M8X30	CPSA4M10X30
	Std Pack	100	100	100	100	100	50
35	Part Number	CPSA4M3X35	CPSA4M4X35	CPSA4M5X35	CPSA4M6X35	CPSA4M8X35	
	Std Pack	100	100	100	100	100	
40	Part Number	CPSA4M3X40	CPSA4M4X40	CPSA4M5X40	CPSA4M6X40	CPSA4M8X40	CPSA4M10X40
	Std Pack	100	100	100	100	100	50
45	Part Number			CPSA4M5X45	CPSA4M6X45	CPSA4M8X45	
	Std Pack			100	100	100	
50	Part Number	CPSA4M3X50	CPSA4M4X50	CPSA4M5X50	CPSA4M6X50	CPSA4M8X50	CPSA4M10X50
	Std Pack	100	100	100	100	100	50
60	Part Number		CPSA4M4X60	CPSA4M5X60	CPSA4M6X60	CPSA4M8X60	CPSA4M10X60
	Std Pack		100	50	50	50	50
65	Part Number			CPSA4M5X65	CPSA4M6X65	CPSA4M8X65	
	Std Pack			50	50	50	
70	Part Number			CPSA4M5X70	CPSA4M6X70	CPSA4M8X70	CPSA4M10X70
	Std Pack			50	50	50	50
75	Part Number			CPSA4M5X75	CPSA4M6X75	CPSA4M8X75	
	Std Pack			50	50	50	
80	Part Number			CPSA4M5X80	CPSA4M6X80	CPSA4M8X80	CPSA4M10X80
	Std Pack			50	100	50	50
90	Part Number				CPSA4M6X90		
	Std Pack				50		
100	Part Number			CPSA4M5X100	CPSA4M6X100	CPSA4M8X100	CPSA4M10X100
	Std Pack			50	50	50	50

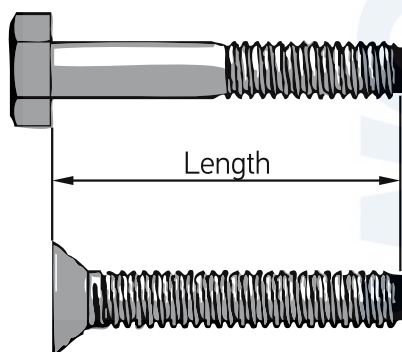
All measurements are in mm



dk max.		0.22	0.27	0.33	0.44	0.55
k max.		0.06	0.07	0.08	0.11	0.14
sr no.		P1	P2	P2	P3	P4
Length (l)	Size (d)	1/8	5/32	3/16	1/4	5/16
1/4	Part Number	CPSA218BSWX14	CPSA2532BSWX14			
	Std Pack	100	100			
3/8	Part Number	CPSA218BSWX38	CPSA2532BSWX38	CPSA2316BSWX38		
	Std Pack	100	100	100		
1/2	Part Number	CPSA218BSWX12	CPSA2532BSWX12	CPSA2316BSWX12	CPSA214BSWX12	
	Std Pack	100	100	100	100	
5/8	Part Number			CPSA2316BSWX58	CPSA214BSWX58	
	Std Pack			100	100	
3/4	Part Number	CPSA218BSWX34	CPSA2532BSWX34	CPSA2316BSWX34	CPSA214BSWX34	
	Std Pack	100	100	100	100	
1	Part Number	CPSA218BSWX1	CPSA2532BSWX1	CPSA2316BSWX1	CPSA214BSWX1	CPSA2516BSWX1
	Std Pack	100	100	100	100	100
1 1/4	Part Number			CPSA2316BSWX114	CPSA214BSWX114	CPSA2516BSWX114
	Std Pack			100	100	100
1 1/2	Part Number			CPSA2316BSWX112	CPSA214BSWX112	CPSA2516BSWX112
	Std Pack			100	100	100
2	Part Number			CPSA2316BSWX2	CPSA214BSWX2	CPSA2516BSWX2
	Std Pack			100	100	100
2 1/2	Part Number			CPSA2316BSWX212	CPSA214BSWX212	CPSA2516BSWX212
	Std Pack			100	100	100
3	Part Number			CPSA2316BSWX3	CPSA214BSWX3	CPSA2516BSWX3
	Std Pack			100	100	100
4	Part Number				CPSA214BSWX4	
	Std Pack				100	

All measurements are in inches

Fastener length



Fastener length is usually measured from where the material is to be to the end of the fastener.

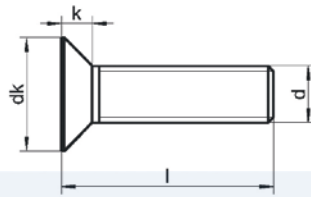
Countersunk fasteners are measured overall and non-countersunk fasteners are measured from under the head.

A4**316**

Countersunk Phillips Metal Thread Screw

BS 450

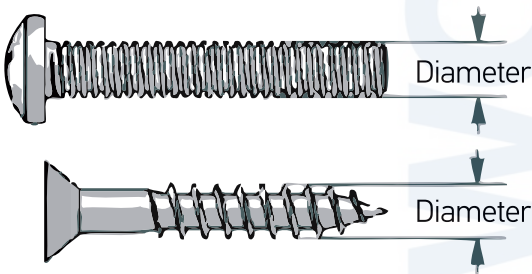
BSW

CPS

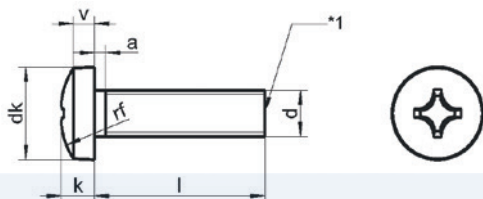
dk max.		0.22	0.27	0.33	0.44	0.55
k max.		0.06	0.07	0.08	0.11	0.14
sr no.		P1	P2	P2	P3	P4
Length (l)	Size (d)	1/8	5/32	3/16	1/4	5/16
1/4	Part Number	CPSA418BSWX14	CPSA4532BSWX14	CPSA4316BSWX14		
	Std Pack	100	100	100		
3/8	Part Number	CPSA418BSWX38	CPSA4532BSWX38	CPSA4316BSWX38		
	Std Pack	100	100	100		
1/2	Part Number	CPSA418BSWX12	CPSA4532BSWX12	CPSA4316BSWX12	CPSA414BSWX12	
	Std Pack	100	100	100	100	
5/8	Part Number			CPSA4316BSWX58	CPSA414BSWX58	
	Std Pack			100	100	
3/4	Part Number	CPSA418BSWX34	CPSA4532BSWX34	CPSA4316BSWX34	CPSA414BSWX34	
	Std Pack	100	100	100	100	
1	Part Number	CPSA418BSWX1	CPSA4532BSWX1	CPSA4316BSWX1	CPSA414BSWX1	CPSA4516BSWX1
	Std Pack	100	100	100	100	100
1 1/4	Part Number			CPSA4316BSWX114	CPSA414BSWX114	CPSA4516BSWX114
	Std Pack			100	100	100
1 1/2	Part Number			CPSA4316BSWX112	CPSA414BSWX112	CPSA4516BSWX112
	Std Pack			100	100	100
2	Part Number			CPSA4316BSWX2	CPSA414BSWX2	CPSA4516BSWX2
	Std Pack			100	100	100
2 1/2	Part Number			CPSA4316BSWX212	CPSA414BSWX212	CPSA4516BSWX212
	Std Pack			100	100	100
3	Part Number			CPSA4316BSWX3	CPSA414BSWX3	
	Std Pack			100	100	
4	Part Number				CPSA414BSWX4	
	Std Pack				100	

All measurements are in inches

Fastener diameter



For most types of fasteners, the diameter is measured on the outside of the threads.



dk max.		4.00	5.00	6.00	8.00	10.00	12.00	16.00
k max.		1.72	2.12	2.52	3.25	3.95	4.75	6.15
vr no.		P1	P1	P1	P2	P2	P3	P4
v approx.		1.10	1.30	1.60	2.00	2.50	3.00	3.70
a max.		0.80	0.90	1.00	1.40	1.60	2.00	2.50
rf approx.		4.00	5.00	6.00	8.00	10.00	12.00	16.00
Length (l)	Size (d)	M2	M2.5	M3	M4	M5	M6	M8
4	Part Number	PPSA2M2X4	PPSA2M25X4	PPSA2M3X4				
	Std Pack	100	100	100				
5	Part Number	PPSA2M2X5	PPSA2M25X5	PPSA2M3X5				
	Std Pack	100	100	100				
6	Part Number	PPSA2M2X6	PPSA2M25X6	PPSA2M3X6	PPSA2M4X6			
	Std Pack	100	100	100	100			
8	Part Number	PPSA2M2X8	PPSA2M25X8	PPSA2M3X8	PPSA2M4X8	PPSA2M5X8	PPSA2M6X8	
	Std Pack	100	100	100	100	100	100	
10	Part Number	PPSA2M2X10	PPSA2M25X10	PPSA2M3X10	PPSA2M4X10	PPSA2M5X10	PPSA2M6X10	PPSA2M8X10
	Std Pack	100	100	100	100	100	100	100
12	Part Number	PPSA2M2X12	PPSA2M25X12	PPSA2M3X12	PPSA2M4X12	PPSA2M5X12	PPSA2M6X12	PPSA2M8X12
	Std Pack	100	100	100	100	100	100	100
16	Part Number	PPSA2M2X16	PPSA2M25X16	PPSA2M3X16	PPSA2M4X16	PPSA2M5X16	PPSA2M6X16	PPSA2M8X16
	Std Pack	100	100	100	100	100	100	100
20	Part Number	PPSA2M2X20	PPSA2M25X20	PPSA2M3X20	PPSA2M4X20	PPSA2M5X20	PPSA2M6X20	PPSA2M8X20
	Std Pack	100	100	100	100	100	100	100
25	Part Number	PPSA2M2X25	PPSA2M25X25	PPSA2M3X25	PPSA2M4X25	PPSA2M5X25	PPSA2M6X25	PPSA2M8X25
	Std Pack	100	100	100	100	100	100	100
30	Part Number			PPSA2M3X30	PPSA2M4X30	PPSA2M5X30	PPSA2M6X30	PPSA2M8X30
	Std Pack			100	100	100	100	100
35	Part Number			PPSA2M3X35	PPSA2M4X35	PPSA2M5X35	PPSA2M6X35	PPSA2M8X35
	Std Pack			100	100	100	100	100
40	Part Number			PPSA2M3X40	PPSA2M4X40	PPSA2M5X40	PPSA2M6X40	PPSA2M8X40
	Std Pack			100	100	100	100	100
45	Part Number					PPSA2M5X45	PPSA2M6X45	PPSA2M8X45
	Std Pack					100	100	100
50	Part Number			PPSA2M3X50	PPSA2M4X50	PPSA2M5X50	PPSA2M6X50	PPSA2M8X50
	Std Pack			100	100	100	100	100
55	Part Number						PPSA2M6X55	
	Std Pack						50	
60	Part Number				PPSA2M4X60	PPSA2M5X60	PPSA2M6X60	PPSA2M8X60
	Std Pack				100	100	50	50
65	Part Number					PPSA2M5X65	PPSA2M6X65	PPSA2M8X65
	Std Pack					100	50	50
70	Part Number					PPSA2M5X70	PPSA2M6X70	PPSA2M8X70
	Std Pack					100	50	50
75	Part Number					PPSA2M5X75	PPSA2M6X75	PPSA2M8X75
	Std Pack					100	50	50
80	Part Number					PPSA2M5X80	PPSA2M6X80	PPSA2M8X80
	Std Pack					100	50	50
90	Part Number						PPSA2M6X90	PPSA2M8X90
	Std Pack						50	50
100	Part Number					PPSA2M5X100	PPSA2M6X100	PPSA2M8X100
	Std Pack					100	50	50

All measurements are in mm

Did you know?

Machine screws differ from bolts as they have a shaft with a helical groove or thread formed on its surface

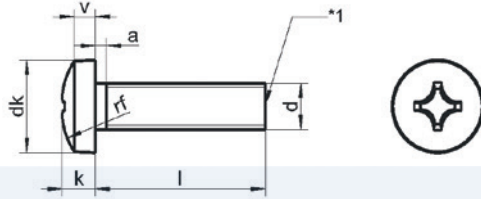
The primary tightening of the fastened joint is accomplished by turning the head of the screw. With a bolt, the primary tightening procedure might be accomplished by turning the nut holding the bolt through a hole. Metal Thread Machine Screws are often used with nuts as well as driven into tapped holes. They might be considered a screw, a bolt or a stove bolt. Mostly available in smaller sizes in 304 & 316 grade.

A4**316**

Pan Phillips Metal Thread Screw

DIN 7985 ISO 7045

METRIC

PPS

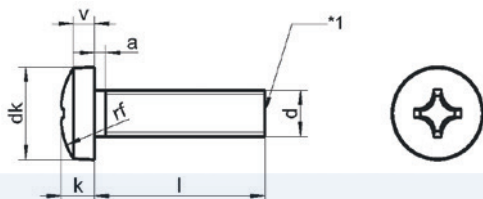
dk max.		6.00		8.00		10.00		12.00		16.00		20.00
k max.		2.52		3.25		3.95		4.75		6.15		7.68
xr no.		P1		P2		P2		P3		P4		P4
v approx.		1.60		2.00		2.50		3.00		3.70		4.80
a max.		1.00		1.40		1.60		2.00		2.50		3.00
rf approx.		6.00		8.00		10.00		12.00		16.00		20.00
Length (l)	Size (d)	M3		M4		M5		M6		M8		M10
6	Part Number	PPSA4M3X6		PPSA4M4X6								
	Std Pack	100		100								
8	Part Number	PPSA4M3X8		PPSA4M4X8								
	Std Pack	100		100								
10	Part Number	PPSA4M3X10		PPSA4M4X10		PPSA4M5X10		PPSA4M6X10				
	Std Pack	100		100		100		100				
12	Part Number	PPSA4M3X12		PPSA4M4X12		PPSA4M5X12		PPSA4M6X12				
	Std Pack	100		100		100		100				
16	Part Number	PPSA4M3X16		PPSA4M4X16		PPSA4M5X16		PPSA4M6X16		PPSA4M8X16		
	Std Pack	100		100		100		100		100		
20	Part Number	PPSA4M3X20		PPSA4M4X20		PPSA4M5X20		PPSA4M6X20		PPSA4M8X20		PPSA4M10X20
	Std Pack	100		100		100		100		100		50
25	Part Number	PPSA4M3X25		PPSA4M4X25		PPSA4M5X25		PPSA4M6X25		PPSA4M8X25		PPSA4M10X25
	Std Pack	100		100		100		100		100		50
30	Part Number	PPSA4M3X30		PPSA4M4X30		PPSA4M5X30		PPSA4M6X30		PPSA4M8X30		PPSA4M10X30
	Std Pack	100		100		100		100		100		50
35	Part Number	PPSA4M3X35		PPSA4M4X35		PPSA4M5X35		PPSA4M6X35		PPSA4M8X35		
	Std Pack	100		100		100		100		100		
40	Part Number	PPSA4M3X40		PPSA4M4X40		PPSA4M5X40		PPSA4M6X40		PPSA4M8X40		PPSA4M10X40
	Std Pack	100		100		100		100		100		50
45	Part Number					PPSA4M5X45		PPSA4M6X45		PPSA4M8X45		
	Std Pack					100		100		100		
50	Part Number	PPSA4M3X50		PPSA4M4X50		PPSA4M5X50		PPSA4M6X50		PPSA4M8X50		PPSA4M10X50
	Std Pack	100		100		100		100		100		50
60	Part Number			PPSA4M4X60		PPSA4M5X60		PPSA4M6X60		PPSA4M8X60		PPSA4M10X60
	Std Pack			100		100		50		50		50
65	Part Number					PPSA4M5X65		PPSA4M6X65		PPSA4M8X65		
	Std Pack					100		50		50		
70	Part Number					PPSA4M5X70		PPSA4M6X70		PPSA4M8X70		PPSA4M10X70
	Std Pack					100		50		50		50
75	Part Number					PPSA4M5X75		PPSA4M6X75		PPSA4M8X75		
	Std Pack					100		50		50		
80	Part Number					PPSA4M5X80		PPSA4M6X80		PPSA4M8X80		PPSA4M10X80
	Std Pack					100		50		50		50
90	Part Number							PPSA4M6X90				
	Std Pack							50				
100	Part Number					PPSA4M5X100		PPSA4M6X100		PPSA4M8X100		PPSA4M10X100
	Std Pack					100		50		50		50

All measurements are in mm

Did you know?

Machine screws are versatile in the number of types of joints they can fasten

They can be used for fastening two or more components with through holes and a nut behind all the components. They can be passed through two or more components and then finally threaded into the rearmost component, which is solid and uniformly threaded and acts as the nut in the joint. Two opposing machine screws can also be used with threaded couplings to separate two plates or boards by the distance equal to the length of the coupling. Machine screws are also used for many types of electrical connections and terminal strips. They are also used to fasten many gasketed devices that are sandwiched together such as waterproof motor casings. They can also be threaded into PEM brand fasteners, which are threaded metallic inserts cast right into plastic parts.



dk max.		0.25	0.27	0.37	0.49	0.62
k max.		0.08	0.08	0.11	0.14	0.18
sr no.		P1	P2	P2	P3	P4
Length (l)	Size (d)	1/8	5/32	3/16	1/4	5/16
1/4	Part Number	PPSA218BSWX14	PPSA2532BSWX14	PPSA2316BSWX14		
	Std Pack	100	100	100		
3/8	Part Number	PPSA218BSWX38	PPSA2532BSWX38	PPSA2316BSWX38		
	Std Pack	100	100	100		
1/2	Part Number	PPSA218BSWX12	PPSA2532BSWX12	PPSA2316BSWX12	PPSA214BSWX12	
	Std Pack	100	100	100	100	
5/8	Part Number			PPSA2316BSWX58	PPSA214BSWX58	
	Std Pack			100	100	
3/4	Part Number	PPSA218BSWX34	PPSA2532BSWX34	PPSA2316BSWX34	PPSA214BSWX34	PPSA2516BSWX34
	Std Pack	100	100	100	100	100
1	Part Number	PPSA218BSWX1	PPSA2532BSWX1	PPSA2316BSWX1	PPSA214BSWX1	PPSA2516BSWX1
	Std Pack	100	100	100	100	100
1 1/4	Part Number			PPSA2316BSWX114	PPSA214BSWX114	PPSA2516BSWX114
	Std Pack			100	100	100
1 1/2	Part Number			PPSA2316BSWX112	PPSA214BSWX112	PPSA2516BSWX112
	Std Pack			100	100	100
2	Part Number			PPSA2316BSWX2	PPSA214BSWX2	PPSA2516BSWX2
	Std Pack			100	100	100
2 1/2	Part Number			PPSA2316BSWX212	PPSA214BSWX212	PPSA2516BSWX212
	Std Pack			100	100	100
3	Part Number			PPSA2316BSWX3	PPSA214BSWX3	PPSA2516BSWX3
	Std Pack			100	100	100
4	Part Number				PPSA214BSWX4	
	Std Pack				100	

All measurements are in inches

Common fasteners



Hex bolts are used in machinery and construction. Can be used with a nut, or in a tapped hole. Fully threaded hex bolts are also known as **Set Screws/Bolts**.



Batten screws have large threads and a smooth shank for pulling two pieces of material together. They can be used in wood and other soft materials.



Sheet metal screws have sharp points and threads, and are designed to be driven directly into sheet metal. They can also be used in softer materials like plastic, fiberglass, or wood.



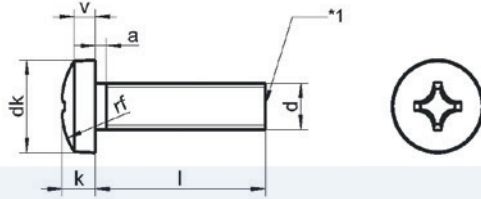
Machine screws are fully threaded for use with a nut or in a tapped hole. Can also be known as a **Metal Thread Screw**.

A4**316**

Pan Phillips Metal Thread Screw

BS 450

BSW

PPS

dk max.		0.25	0.27	0.37	0.49	0.62
k max.		0.08	0.08	0.11	0.14	0.18
sr no.		P1	P2	P2	P3	P4
Length (l)	Size (d)	1/8	5/32	3/16	1/4	5/16
1/4	Part Number	PPSA418BSWX14	PPSA4532BSWX14	PPSA4316BSWX14		
	Std Pack	100	100	100		
3/8	Part Number	PPSA418BSWX38	PPSA4532BSWX38	PPSA4316BSWX38		
	Std Pack	100	100	100		
1/2	Part Number	PPSA418BSWX12	PPSA4532BSWX12	PPSA4316BSWX12	PPSA414BSWX12	
	Std Pack	100	100	100	100	
5/8	Part Number			PPSA4316BSWX58	PPSA414BSWX58	
	Std Pack			100	100	
3/4	Part Number	PPSA418BSWX34	PPSA4532BSWX34	PPSA4316BSWX34	PPSA414BSWX34	PPSA4516BSWX34
	Std Pack	100	100	100	100	100
1	Part Number	PPSA418BSWX1	PPSA4532BSWX1	PPSA4316BSWX1	PPSA414BSWX1	PPSA4516BSWX1
	Std Pack	100	100	100	100	100
1 1/4	Part Number			PPSA4316BSWX114	PPSA414BSWX114	PPSA4516BSWX114
	Std Pack			100	100	100
1 1/2	Part Number			PPSA4316BSWX112	PPSA414BSWX112	PPSA4516BSWX112
	Std Pack			100	100	100
2	Part Number			PPSA4316BSWX2	PPSA414BSWX2	PPSA4516BSWX2
	Std Pack			100	100	100
2 1/2	Part Number			PPSA4316BSWX212	PPSA414BSWX212	PPSA4516BSWX212
	Std Pack			100	100	100
3	Part Number			PPSA4316BSWX3	PPSA414BSWX3	PPSA4516BSWX3
	Std Pack			100	100	100
4	Part Number				PPSA414BSWX4	
	Std Pack				100	

All measurements are in inches

Common fasteners



Socket screws are machine screws with an internal hex socket (Allen) drive. Longer lengths may have a shank.



Hex Coach Screws, are large wood screws with hex heads. Typically used for wood construction and landscaping.



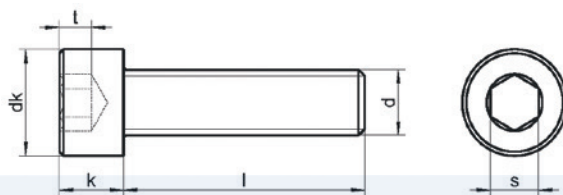
Cup head Square neck bolts have smooth, domed heads with a square section underneath that pulls into the material to prevent spinning during installation.



Nuts are used to fasten machine threaded fasteners in through-hole applications. Lock nuts help prevent loosening.



Washers spread the load over a greater surface area when tightening a bolt, screw or nut. Lock washers help preventing loosening.



dk max.		3.80	4.50	5.50	7.00	8.50
k max.		2.00	2.50	3.00	4.00	5.00
t min.		1.00	1.10	1.30	2.00	2.50
s nom.		1.50	2.00	2.50	3.00	4.00
Length (l)	Size (d)	M2	M2.5	M3	M4	M5
6	Part Number	SCSA2M2X6	SCSA2M25X6	SCSA2M3X6	SCSA2M4X6	SCSA2M5X6
	Std Pack	100	100	100	100	100
8	Part Number	SCSA2M2X8	SCSA2M25X8	SCSA2M3X8	SCSA2M4X8	SCSA2M5X8
	Std Pack	100	100	100	100	100
10	Part Number	SCSA2M2X10	SCSA2M25X10	SCSA2M3X10	SCSA2M4X10	SCSA2M5X10
	Std Pack	100	100	100	100	100
12	Part Number	SCSA2M2X12	SCSA2M25X12	SCSA2M3X12	SCSA2M4X12	SCSA2M5X12
	Std Pack	100	100	100	100	100
16	Part Number	SCSA2M2X16	SCSA2M25X16	SCSA2M3X16	SCSA2M4X16	SCSA2M5X16
	Std Pack	100	100	100	100	100
20	Part Number	SCSA2M2X20	SCSA2M25X20	SCSA2M3X20	SCSA2M4X20	SCSA2M5X20
	Std Pack	100	100	100	100	100
25	Part Number		SCSA2M25X25	SCSA2M3X25	SCSA2M4X25	SCSA2M5X25
	Std Pack		100	100	100	100
30	Part Number			SCSA2M3X30	SCSA2M4X30	SCSA2M5X30
	Std Pack			100	100	100
35	Part Number			SCSA2M3X35	SCSA2M4X35	SCSA2M5X35
	Std Pack			100	100	100
40	Part Number			SCSA2M3X40	SCSA2M4X40	SCSA2M5X40
	Std Pack			100	100	100
45	Part Number			SCSA2M3X45	SCSA2M4X45	SCSA2M5X45
	Std Pack			100	100	100
50	Part Number			SCSA2M3X50	SCSA2M4X50	SCSA2M5X50
	Std Pack			100	100	100
55	Part Number					
	Std Pack					
60	Part Number				SCSA2M4X60	SCSA2M5X60
	Std Pack				100	100

All measurements are in mm

Did you know?

Socket cap screws have a hexagonal recess in the centre of the screw head to accept a hex wrench

The hexagonal recess coupled with a hex wrench increases the bite between the socket head screw and the tool. This results in less head damage than standard Phillips or slotted head screws. Like other head types, socket cap screws come in a variety of head and material types for a wide variety of applications.

A2

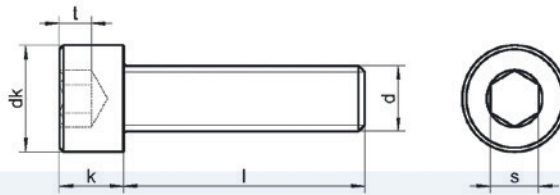
304

Socket Cap Screw

DIN 912 ISO 4762

METRIC

SCS



dk max.		10.00	13.00	16.00	18.00	24.00
k max.		6.00	8.00	10.00	12.00	16.00
t min.		3.00	4.00	5.00	6.00	8.00
s nom.		5.00	6.00	8.00	10.00	14.00
Length (l)	Size (d)	M6	M8	M10	M12	M16
8	Part Number	SCSA2M6X8				
	Std Pack	100				
10	Part Number	SCSA2M6X10				
	Std Pack	100				
12	Part Number	SCSA2M6X12	SCSA2M8X12			
	Std Pack	100	100			
16	Part Number	SCSA2M6X16	SCSA2M8X16	SCSA2M10X16		
	Std Pack	100	100	100		
20	Part Number	SCSA2M6X20	SCSA2M8X20	SCSA2M10X20	SCSA2M12X20	
	Std Pack	100	100	100	100	
25	Part Number	SCSA2M6X25	SCSA2M8X25	SCSA2M10X25	SCSA2M12X25	
	Std Pack	100	100	100	100	
30	Part Number	SCSA2M6X30	SCSA2M8X30	SCSA2M10X30	SCSA2M12X30	SCSA2M16X30
	Std Pack	100	100	100	100	25
35	Part Number	SCSA2M6X35	SCSA2M8X35	SCSA2M10X35	SCSA2M12X35	SCSA2M16X35
	Std Pack	100	100	100	50	25
40	Part Number	SCSA2M6X40	SCSA2M8X40	SCSA2M10X40	SCSA2M12X40	SCSA2M16X40
	Std Pack	100	100	100	50	25
45	Part Number	SCSA2M6X45	SCSA2M8X45	SCSA2M10X45	SCSA2M12X45	SCSA2M16X45
	Std Pack	100	100	100	50	25
50	Part Number	SCSA2M6X50	SCSA2M8X50	SCSA2M10X50	SCSA2M12X50	SCSA2M16X50
	Std Pack	100	100	100	50	25
55	Part Number	SCSA2M6X55	SCSA2M8X55			
	Std Pack	50	50			
60	Part Number	SCSA2M6X60	SCSA2M8X60	SCSA2M10X60	SCSA2M12X60	SCSA2M16X60
	Std Pack	50	50	50	25	25
65	Part Number	SCSA2M6X65	SCSA2M8X65			
	Std Pack	50	50			
70	Part Number	SCSA2M6X70	SCSA2M8X70	SCSA2M10X70	SCSA2M12X70	SCSA2M16X70
	Std Pack	50	50	50	25	25
75	Part Number	SCSA2M6X75	SCSA2M8X75			
	Std Pack	50	50			
80	Part Number	SCSA2M6X80	SCSA2M8X80	SCSA2M10X80	SCSA2M12X80	SCSA2M16X80
	Std Pack	50	50	50	25	25
90	Part Number	SCSA2M6X90	SCSA2M8X90	SCSA2M10X90	SCSA2M12X90	SCSA2M16X90
	Std Pack	50	50	50	25	25
100	Part Number	SCSA2M6X100	SCSA2M8X100	SCSA2M10X100	SCSA2M12X100	SCSA2M16X100
	Std Pack	50	50	50	25	25
110	Part Number	SCSA2M6X110	SCSA2M8X110	SCSA2M10X110	SCSA2M12X110	SCSA2M16X110
	Std Pack	25	25	25	25	25
120	Part Number	SCSA2M6X120	SCSA2M8X120	SCSA2M10X120	SCSA2M12X120	SCSA2M16X120
	Std Pack	25	25	25	25	25
130	Part Number	SCSA2M6X130	SCSA2M8X130	SCSA2M10X130	SCSA2M12X130	SCSA2M16X130
	Std Pack	25	25	25	25	25
140	Part Number	SCSA2M6X140	SCSA2M8X140	SCSA2M10X140	SCSA2M12X140	SCSA2M16X140
	Std Pack	25	25	25	25	25
150	Part Number	SCSA2M6X150	SCSA2M8X150	SCSA2M10X150	SCSA2M12X150	SCSA2M16X150
	Std Pack	25	25	25	25	25

All measurements are in mm

SCS

Socket Cap Screw

DIN 912 ISO 4762

METRIC

A4

316



dk max.		5.50	7.00	8.50	10.00	13.00
k max.		3.00	4.00	5.00	6.00	8.00
t min.		1.30	2.00	2.50	3.00	4.00
s nom.		2.50	3.00	4.00	5.00	6.00
Length (l)	Size (d)	M3	M4	M5	M6	M8
6	Part Number	SCSA4M3X6	SCSA4M4X6			
	Std Pack	100	100			
8	Part Number	SCSA4M3X8	SCSA4M4X8			
	Std Pack	100	100			
10	Part Number	SCSA4M3X10	SCSA4M4X10	SCSA4M5X10	SCSA4M6X10	
	Std Pack	100	100	100	100	
12	Part Number	SCSA4M3X12	SCSA4M4X12	SCSA4M5X12	SCSA4M6X12	
	Std Pack	100	100	100	100	
16	Part Number	SCSA4M3X16	SCSA4M4X16	SCSA4M5X16	SCSA4M6X16	SCSA4M8X16
	Std Pack	100	100	100	100	100
20	Part Number	SCSA4M3X20	SCSA4M4X20	SCSA4M5X20	SCSA4M6X20	SCSA4M8X20
	Std Pack	100	100	100	100	100
25	Part Number	SCSA4M3X25	SCSA4M4X25	SCSA4M5X25	SCSA4M6X25	SCSA4M8X25
	Std Pack	100	100	100	100	100
30	Part Number	SCSA4M3X30	SCSA4M4X30	SCSA4M5X30	SCSA4M6X30	SCSA4M8X30
	Std Pack	100	100	100	100	100
35	Part Number	SCSA4M3X35	SCSA4M4X35	SCSA4M5X35	SCSA4M6X35	SCSA4M8X35
	Std Pack	100	100	100	100	100
40	Part Number	SCSA4M3X40	SCSA4M4X40	SCSA4M5X40	SCSA4M6X40	SCSA4M8X40
	Std Pack	100	100	100	100	100
45	Part Number	SCSA4M3X45	SCSA4M4X45	SCSA4M5X45	SCSA4M6X45	SCSA4M8X45
	Std Pack	100	100	100	100	100
50	Part Number	SCSA4M3X50	SCSA4M4X50	SCSA4M5X50	SCSA4M6X50	SCSA4M8X50
	Std Pack	100	100	100	100	100
55	Part Number				SCSA4M6X55	SCSA4M8X55
	Std Pack				50	50
60	Part Number		SCSA4M4X60	SCSA4M5X60	SCSA4M6X60	SCSA4M8X60
	Std Pack		100	100	50	50
65	Part Number				SCSA4M6X65	SCSA4M8X65
	Std Pack				50	50
70	Part Number			SCSA4M5X70	SCSA4M6X70	SCSA4M8X70
	Std Pack			100	50	50
75	Part Number				SCSA4M6X75	SCSA4M8X75
	Std Pack				50	50
80	Part Number			SCSA4M5X80	SCSA4M6X80	SCSA4M8X80
	Std Pack			100	50	50
90	Part Number			SCSA4M5X90	SCSA4M6X90	SCSA4M8X90
	Std Pack			100	50	50
100	Part Number			SCSA4M5X100	SCSA4M6X100	SCSA4M8X100
	Std Pack			100	50	50
110	Part Number				SCSA4M6X110	SCSA4M8X110
	Std Pack				25	25
120	Part Number				SCSA4M6X120	SCSA4M8X120
	Std Pack				25	25
130	Part Number				SCSA4M6X130	SCSA4M8X130
	Std Pack				25	25
140	Part Number				SCSA4M6X140	SCSA4M8X140
	Std Pack				25	25
150	Part Number				SCSA4M6X150	SCSA4M8X150
	Std Pack				25	25

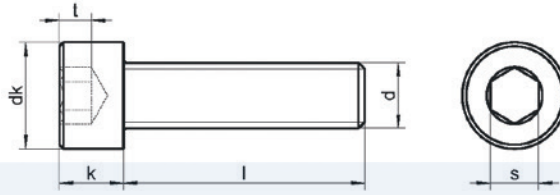
All measurements are in mm

A4**316**

Socket Cap Screw

DIN 912 ISO 4762

METRIC

SCS

dk max.		16.00	18.00	24.00	30.00
k max.		10.00	12.00	16.00	20.00
t min.		5.00	6.00	8.00	10.00
s nom.		8.00	10.00	14.00	17.00
Length (l)	Size (d)	M10	M12	M16	M20
20	Part Number	SCSA4M10X20	SCSA4M12X20		
	Std Pack	100	50		
25	Part Number	SCSA4M10X25	SCSA4M12X25	SCSA4M16X25	
	Std Pack	100	50	25	
30	Part Number	SCSA4M10X30	SCSA4M12X30	SCSA4M16X30	
	Std Pack	100	50	25	
35	Part Number	SCSA4M10X35	SCSA4M12X35	SCSA4M16X35	
	Std Pack	100	50	25	
40	Part Number	SCSA4M10X40	SCSA4M12X40	SCSA4M16X40	SCSA4M20X40
	Std Pack	100	50	25	10
45	Part Number	SCSA4M10X45	SCSA4M12X45	SCSA4M16X45	SCSA4M20X45
	Std Pack	100	50	25	10
50	Part Number	SCSA4M10X50	SCSA4M12X50	SCSA4M16X50	SCSA4M20X50
	Std Pack	100	50	25	10
55	Part Number				
	Std Pack				
60	Part Number	SCSA4M10X60	SCSA4M12X60	SCSA4M16X60	SCSA4M20X60
	Std Pack	50	25	25	10
65	Part Number				
	Std Pack				
70	Part Number	SCSA4M10X70	SCSA4M12X70	SCSA4M16X70	SCSA4M20X70
	Std Pack	50	25	25	10
75	Part Number				
	Std Pack				
80	Part Number	SCSA4M10X80	SCSA4M12X80	SCSA4M16X80	SCSA4M20X80
	Std Pack	50	25	25	10
90	Part Number	SCSA4M10X90	SCSA4M12X90	SCSA4M16X90	SCSA4M20X90
	Std Pack	50	25	25	10
100	Part Number	SCSA4M10X100	SCSA4M12X100	SCSA4M16X100	SCSA4M20X100
	Std Pack	50	25	25	10
110	Part Number	SCSA4M10X110	SCSA4M12X110	SCSA4M16X110	
	Std Pack	25	25	25	
120	Part Number	SCSA4M10X120	SCSA4M12X120	SCSA4M16X120	
	Std Pack	25	25	25	
130	Part Number	SCSA4M10X130	SCSA4M12X130	SCSA4M16X130	
	Std Pack	25	25	25	
140	Part Number	SCSA4M10X140	SCSA4M12X140	SCSA4M16X140	
	Std Pack	25	25	25	
150	Part Number	SCSA4M10X150	SCSA4M12X150	SCSA4M16X150	
	Std Pack	25	25	25	

All measurements are in mm



dk max.		0.270	0.312	0.375	0.469	0.562	0.750
k max.		0.164	0.190	0.250	0.312	0.375	0.500
t min.		0.077	0.090	0.120	0.151	0.182	0.245
s nom.		0.141	0.156	0.188	0.250	0.312	0.375
Length (l)	Size (d)	8-32	10-24	1/4	5/16	3/8	1/2
1/4	Part Number	SCSA2832UNCX14	SCSA21024UNCX14				
	Std Pack	100	100				
3/8	Part Number	SCSA2832UNCX38	SCSA21024UNCX38	SCSA214UNCX38			
	Std Pack	100	100	100			
1/2	Part Number	SCSA2832UNCX12	SCSA21024UNCX12	SCSA214UNCX12	SCSA2516UNCX12		
	Std Pack	100	100	100	100		
5/8	Part Number	SCSA2832UNCX58	SCSA21024UNCX58	SCSA214UNCX58	SCSA2516UNCX58		
	Std Pack	100	100	100	100		
3/4	Part Number	SCSA2832UNCX34	SCSA21024UNCX34	SCSA214UNCX34	SCSA2516UNCX34	SCSA238UNCX34	SCSA212UNCX34
	Std Pack	100	100	100	100	100	25
1	Part Number	SCSA2832UNC1	SCSA21024UNCX1	SCSA214UNCX1	SCSA2516UNCX1	SCSA238UNCX1	SCSA212UNC1
	Std Pack	100	100	100	100	100	25
1-1/4	Part Number			SCSA214UNCX114	SCSA2516UNCX114	SCSA238UNCX114	SCSA212UNCX114
	Std Pack			100	100	100	25
1-1/2	Part Number	SCSA2832UNC112	SCSA21024UNCX112	SCSA214UNCX112	SCSA2516UNCX112	SCSA238UNCX112	SCSA212UNCX112
	Std Pack	100	100	100	100	100	25
1-3/4	Part Number			SCSA214UNCX134	SCSA2516UNCX134	SCSA238UNCX134	SCSA212UNCX134
	Std Pack			100	100	100	25
2	Part Number		SCSA21024UNCX2	SCSA214UNCX2	SCSA2516UNCX2	SCSA238UNCX2	SCSA212UNCX2
	Std Pack		100	100	100	100	25
2-1/2	Part Number					SCSA238UNCX212	SCSA212UNCX212
	Std Pack					50	25
3	Part Number					SCSA238UNCX3	SCSA212UNCX3
	Std Pack					50	25

All measurements are in inches

Did you know?

All Socket screws meet AISI, IFI, ANSI, ASME and ASTM standards and specifications

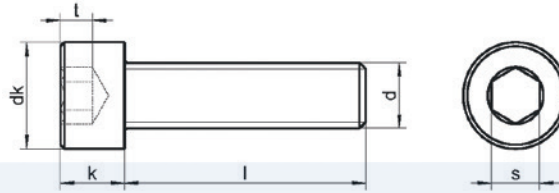
Socket screws are used in a wide variety of applications where both strength and cosmetics are important. They are found in tooling, metal stamping dies, plastic injection moulds, machinery, power transmission, hand and power tools and even furniture.

A4**316**

Socket Cap Screw

ANSI / ASME B18.3

UNC

SCS

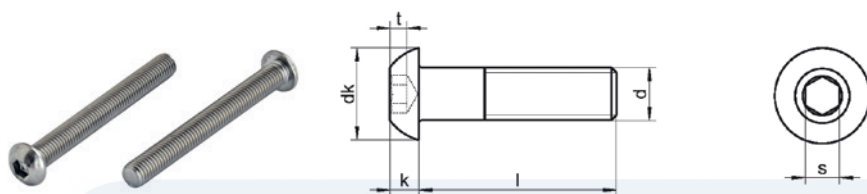
dk max.		0.312	0.375	0.469	0.562	0.750
k max.		0.190	0.250	0.312	0.375	0.500
t min.		0.090	0.120	0.151	0.182	0.245
s nom.		0.156	0.188	0.250	0.312	0.375
Length (l)	Size (d)	10-24	1/4	5/16	3/8	1/2
1/4	Part Number	SCSA41024UNCX14				
	Std Pack	100				
3/8	Part Number	SCSA41024UNCX38	SCSA414UNCX38			
	Std Pack	100	100			
1/2	Part Number	SCSA41024UNCX12	SCSA414UNCX12	SCSA4516UNCX12		
	Std Pack	100	100	100		
5/8	Part Number		SCSA414UNCX58	SCSA4516UNCX58		
	Std Pack		100	100		
3/4	Part Number	SCSA41024UNCX34	SCSA414UNCX34	SCSA4516UNCX34	SCSA438UNCX34	SCSA412UNCX34
	Std Pack	100	100	100	100	25
1	Part Number	SCSA41024UNCX1	SCSA414UNCX1	SCSA4516UNCX1	SCSA438UNCX1	SCSA412UNCX1
	Std Pack	100	100	100	100	25
1-1/4	Part Number		SCSA414UNCX114	SCSA4516UNCX114	SCSA438UNCX114	SCSA412UNCX114
	Std Pack		100	100	100	25
1-1/2	Part Number		SCSA414UNCX112	SCSA4516UNCX112	SCSA438UNCX112	SCSA412UNCX112
	Std Pack		100	100	100	25
1-3/4	Part Number		SCSA414UNCX134	SCSA4516UNCX134	SCSA438UNCX134	SCSA412UNCX134
	Std Pack		100	100	100	25
2	Part Number		SCSA414UNCX2	SCSA4516UNCX2	SCSA438UNCX2	SCSA412UNCX2
	Std Pack		100	100	100	25
2-1/2	Part Number				SCSA438UNCX212	SCSA412UNCX212
	Std Pack				50	25
3	Part Number				SCSA438UNCX3	SCSA412UNCX3
	Std Pack				50	25

All measurements are in inches

Did you know?

Stainless socket screws have less tensile and yield strength than alloy sockets, but superior corrosion resistance

They also retain mechanical and performance capabilities at higher than ambient temperatures.



dk max.		5.20	7.20	8.80	10.00	13.20	16.50	19.40
k max.		1.65	2.20	2.75	3.30	4.40	5.50	6.60
t min.		1.04	1.30	1.56	2.08	2.60	3.12	4.16
s nom.		2.00	2.50	3.00	4.00	5.00	6.00	8.00
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12
6	Part Number	BCSA2M3X6	BCSA2M4X6					
	Std Pack	100	100					
8	Part Number	BCSA2M3X8	BCSA2M4X8	BCSA2M5X8				
	Std Pack	100	100	100				
10	Part Number	BCSA2M3X10	BCSA2M4X10	BCSA2M5X10	BCSA2M6X10			
	Std Pack	100	100	100	100			
12	Part Number	BCSA2M3X12	BCSA2M4X12	BCSA2M5X12	BCSA2M6X12	BCSA2M8X12		
	Std Pack	100	100	100	100	100		
16	Part Number	BCSA2M3X16	BCSA2M4X16	BCSA2M5X16	BCSA2M6X16	BCSA2M8X16	BCSA2M10X16	
	Std Pack	100	100	100	100	100	50	
20	Part Number	BCSA2M3X20	BCSA2M4X20	BCSA2M5X20	BCSA2M6X20	BCSA2M8X20	BCSA2M10X20	BCSA2M12X20
	Std Pack	100	100	100	100	100	50	25
25	Part Number	BCSA2M3X25	BCSA2M4X25	BCSA2M5X25	BCSA2M6X25	BCSA2M8X25	BCSA2M10X25	BCSA2M12X25
	Std Pack	100	100	100	100	100	50	25
30	Part Number	BCSA2M3X30	BCSA2M4X30	BCSA2M5X30	BCSA2M6X30	BCSA2M8X30	BCSA2M10X30	BCSA2M12X30
	Std Pack	100	100	100	100	100	50	25
35	Part Number			BCSA2M5X35	BCSA2M6X35	BCSA2M8X35	BCSA2M10X35	BCSA2M12X35
	Std Pack			100	100	100	50	25
40	Part Number	BCSA2M3X40	BCSA2M4X40	BCSA2M5X40	BCSA2M6X40	BCSA2M8X40	BCSA2M10X40	BCSA2M12X40
	Std Pack	100	100	100	100	100	50	25
45	Part Number			BCSA2M5X45	BCSA2M6X45	BCSA2M8X45	BCSA2M10X45	
	Std Pack			100	100	100	50	
50	Part Number	BCSA2M3X50	BCSA2M4X50	BCSA2M5X50	BCSA2M6X50	BCSA2M8X50	BCSA2M10X50	BCSA2M12X50
	Std Pack	100	100	100	100	100	50	25
60	Part Number			BCSA2M5X60	BCSA2M6X60	BCSA2M8X60	BCSA2M10X60	BCSA2M12X60
	Std Pack			100	100	100	50	25
70	Part Number				BCSA2M6X70	BCSA2M8X70	BCSA2M10X70	BCSA2M12X70
	Std Pack				100	100	50	25
80	Part Number				BCSA2M6X80	BCSA2M8X80	BCSA2M10X80	BCSA2M12X80
	Std Pack				100	50	50	25
100	Part Number				BCSA2M6X100	BCSA2M8X100	BCSA2M10X100	BCSA2M12X100
	Std Pack				100	50	50	25

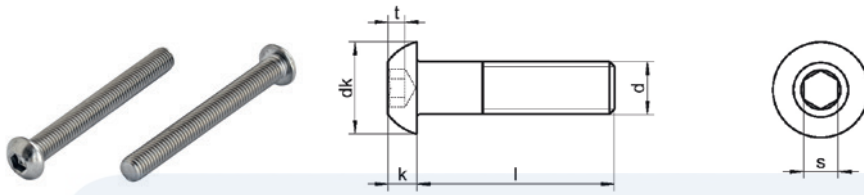
All measurements are in mm

A4**316**

Button Cap Socket Screw

ISO 7380

METRIC

BCS

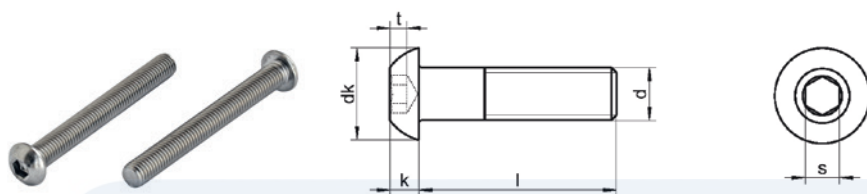
dk max.		5.20	7.20	8.80	10.00	13.20	16.50	19.40
k max.		1.65	2.20	2.75	3.30	4.40	5.50	6.60
t min.		1.04	1.30	1.56	2.08	2.60	3.12	4.16
s nom.		2.00	2.50	3.00	4.00	5.00	6.00	8.00
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12
6	Part Number	BCSA4M3X6	BCSA4M4X6					
	Std Pack	100	100					
8	Part Number	BCSA4M3X8	BCSA4M4X8	BCSA4M5X8				
	Std Pack	100	100	100				
10	Part Number	BCSA4M3X10	BCSA4M4X10	BCSA4M5X10	BCSA4M6X10			
	Std Pack	100	100	100	100			
12	Part Number	BCSA4M3X12	BCSA4M4X12	BCSA4M5X12	BCSA4M6X12			
	Std Pack	100	100	100	100			
16	Part Number	BCSA4M3X16	BCSA4M4X16	BCSA4M5X16	BCSA4M6X16	BCSA4M8X16		
	Std Pack	100	100	100	100	100		
20	Part Number	BCSA4M3X20	BCSA4M4X20	BCSA4M5X20	BCSA4M6X20	BCSA4M8X20	BCSA4M10X20	BCSA4M12X20
	Std Pack	100	100	100	100	100	50	25
25	Part Number	BCSA4M3X25	BCSA4M4X25	BCSA4M5X25	BCSA4M6X25	BCSA4M8X25	BCSA4M10X25	BCSA4M12X25
	Std Pack	100	100	100	100	100	50	25
30	Part Number	BCSA4M3X30	BCSA4M4X30	BCSA4M5X30	BCSA4M6X30	BCSA4M8X30	BCSA4M10X30	BCSA4M12X30
	Std Pack	100	100	100	100	100	50	25
35	Part Number			BCSA4M5X35	BCSA4M6X35	BCSA4M8X35	BCSA4M10X35	BCSA4M12X35
	Std Pack			100	100	100	50	25
40	Part Number	BCSA4M3X40	BCSA4M4X40	BCSA4M5X40	BCSA4M6X40	BCSA4M8X40	BCSA4M10X40	BCSA4M12X40
	Std Pack	100	100	100	100	100	50	25
45	Part Number			BCSA4M5X45	BCSA4M6X45	BCSA4M8X45	BCSA4M10X45	
	Std Pack			100	100	100	50	
50	Part Number	BCSA4M3X50	BCSA4M4X50	BCSA4M5X50	BCSA4M6X50	BCSA4M8X50	BCSA4M10X50	BCSA4M12X50
	Std Pack	100	100	100	100	100	50	25
60	Part Number			BCSA4M5X60	BCSA4M6X60	BCSA4M8X60	BCSA4M10X60	BCSA4M12X60
	Std Pack			100	100	100	50	25
70	Part Number				BCSA4M6X70	BCSA4M8X70	BCSA4M10X70	BCSA4M12X70
	Std Pack				100	100	50	25
80	Part Number				BCSA4M6X80	BCSA4M8X80	BCSA4M10X80	BCSA4M12X80
	Std Pack				100	50	50	25
100	Part Number				BCSA4M6X100	BCSA4M8X100	BCSA4M10X100	BCSA4M12X100
	Std Pack				100	50	50	25

All measurements are in mm

Did you know?

Button Head Socket Screws are designed for light fastening applications

Used when a wider bearing surface or smoother, finished appearance is desired. Not recommended for critical, high-strength applications.



dk max.		0.31	0.36	0.44	0.55	0.66	0.88
k max.		0.09	0.10	0.13	0.17	0.20	0.27
t min.		0.05	0.07	0.09	0.11	0.12	0.18
s nom.		0.09	0.13	0.16	0.19	0.22	0.31
Length (l)	Size (d)	8-32	10-24	1/4	5/16	3/8	1/2
1/4	Part Number	BCSA2832UNCX14	BCSA21024UNCX14				
	Std Pack	100	100				
3/8	Part Number	BCSA2832UNCX38	BCSA21024UNCX38	BCSA214UNCX38			
	Std Pack	100	100	100			
1/2	Part Number	BCSA2832UNCX12	BCSA21024UNCX12	BCSA214UNCX12			
	Std Pack	100	100	100			
5/8	Part Number		BCSA21024UNCX58	BCSA214UNCX58	BCSA2516UNCX58		
	Std Pack		100	100	100		
3/4	Part Number	BCSA2832UNCX34	BCSA21024UNCX34	BCSA214UNCX34	BCSA2516UNCX34	BCSA238UNCX34	BCSA212UNCX34
	Std Pack	100	100	100	100	100	25
1	Part Number	BCSA2832UNCX1	BCSA21024UNCX1	BCSA214UNCX1	BCSA2516UNCX1	BCSA238UNCX1	BCSA212UNCX1
	Std Pack	100	100	100	100	100	25
1-1/4	Part Number			BCSA214UNCX114	BCSA2516UNCX114	BCSA238UNCX114	BCSA212UNCX114
	Std Pack			100	100	100	25
1-1/2	Part Number			BCSA214UNCX112	BCSA2516UNCX112	BCSA238UNCX112	BCSA212UNCX112
	Std Pack			100	100	100	25
2	Part Number			BCSA214UNCX2	BCSA2516UNC2	BCSA238UNCX2	BCSA212UNCX2
	Std Pack			100	100	100	25

All measurements are in inches

Did you know?

Button Head Socket Screws have finer threads than wood screws

They are designed to be used in conjunction with a nut or tapped hole.

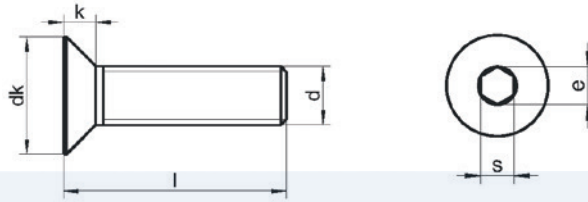
Button Head Socket Screws are like a pan head but has a top that is more curved.

A2**304**

Countersunk Socket Screw

DIN 7991 ISO 10642

METRIC

CCS

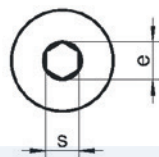
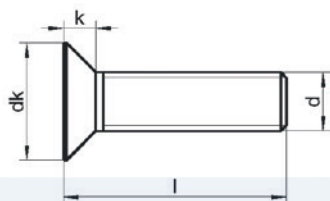
dk max.		6.00	8.00	10.00	12.00	16.00	20.00	24.00	30.00
k max.		1.70	2.30	2.80	3.30	4.40	5.50	6.50	7.50
t max.		1.20	1.80	2.30	2.50	3.50	4.40	4.60	5.30
s nom.		2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12	M16
6	Part Number	CCSA2M3X6	CCSA2M4X6	CCSA2M5X6					
	Std Pack	100	100	100					
8	Part Number	CCSA2M3X8	CCSA2M4X8	CCSA2M5X8					
	Std Pack	100	100	100					
10	Part Number	CCSA2M3X10	CCSA2M4X10	CCSA2M5X10	CCSA2M6X10				
	Std Pack	100	100	100	100				
12	Part Number	CCSA2M3X12	CCSA2M4X12	CCSA2M5X12	CCSA2M6X12	CCSA2M8X12			
	Std Pack	100	100	100	100	100			
16	Part Number	CCSA2M3X16	CCSA2M4X16	CCSA2M5X16	CCSA2M6X16	CCSA2M8X16	CCSA2M10X16		
	Std Pack	100	100	100	100	100	50		
20	Part Number	CCSA2M3X20	CCSA2M4X20	CCSA2M5X20	CCSA2M6X20	CCSA2M8X20	CCSA2M10X20	CCSA2M12X20	
	Std Pack	100	100	100	100	100	50	25	
25	Part Number	CCSA2M3X25	CCSA2M4X25	CCSA2M5X25	CCSA2M6X25	CCSA2M8X25	CCSA2M10X25	CCSA2M12X25	
	Std Pack	100	100	100	100	100	50	25	
30	Part Number	CCSA2M3X30	CCSA2M4X30	CCSA2M5X30	CCSA2M6X30	CCSA2M8X30	CCSA2M10X30	CCSA2M12X30	CCSA2M16X30
	Std Pack	100	100	100	100	100	50	25	25
35	Part Number		CCSA2M4X35	CCSA2M5X35	CCSA2M6X35	CCSA2M8X35	CCSA2M10X35	CCSA2M12X35	CCSA2M16X35
	Std Pack		100	100	100	100	50	25	25
40	Part Number	CCSA2M3X40	CCSA2M4X40	CCSA2M5X40	CCSA2M6X40	CCSA2M8X40	CCSA2M10X40	CCSA2M12X40	CCSA2M16X40
	Std Pack	100	100	100	100	100	50	25	25
45	Part Number			CCSA2M5X45	CCSA2M6X45	CCSA2M8X45	CCSA2M10X45	CCSA2M12X45	CCSA2M16X45
	Std Pack			100	100	100	50	25	25
50	Part Number	CCSA2M3X50	CCSA2M4X50	CCSA2M5X50	CCSA2M6X50	CCSA2M8X50	CCSA2M10X50	CCSA2M12X50	CCSA2M16X50
	Std Pack	100	100	100	100	100	50	25	25
60	Part Number		CCSA2M4X60	CCSA2M5X60	CCSA2M6X60	CCSA2M8X60	CCSA2M10X60	CCSA2M12X60	CCSA2M16X60
	Std Pack		100	100	50	50	50	25	25
65	Part Number							CCSA2M12X65	
	Std Pack							25	
70	Part Number			CCSA2M5X70	CCSA2M6X70	CCSA2M8X70	CCSA2M10X70	CCSA2M12X70	CCSA2M16X70
	Std Pack			100	50	50	50	25	25
80	Part Number			CCSA2M5X80	CCSA2M6X80	CCSA2M8X80	CCSA2M10X80	CCSA2M12X80	CCSA2M16X80
	Std Pack			100	50	50	50	25	25
90	Part Number					CCSA2M8X90	CCSA2M10X90	CCSA2M12X90	CCSA2M16X90
	Std Pack					50	50	25	25
100	Part Number				CCSA2M6X100	CCSA2M8X100	CCSA2M10X100	CCSA2M12X100	CCSA2M16X100
	Std Pack				50	50	50	25	25

All measurements are in mm

Did you know?

Countersunk Socket Screws are used when a flush mount, high strength screw is required

Often used for tools and dies where moving parts pass over an area.



dk max.		6.00	8.00	10.00	12.00	16.00	20.00	24.00	30.00
k max.		1.70	2.30	2.80	3.30	4.40	5.50	6.50	7.50
t max.		1.20	1.80	2.30	2.50	3.50	4.40	4.60	5.30
s nom.		2.00	2.50	3.00	4.00	5.00	6.00	8.00	10.00
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12	M16
6	Part Number	CCSA4M3X6	CCSA4M4X6	CCSA4M5X6					
	Std Pack	100	100	100					
8	Part Number	CCSA4M3X8	CCSA4M4X8	CCSA4M5X8					
	Std Pack	100	100	100					
10	Part Number	CCSA4M3X10	CCSA4M4X10	CCSA4M5X10	CCSA4M6X10				
	Std Pack	100	100	100	100				
12	Part Number	CCSA4M3X12	CCSA4M4X12	CCSA4M5X12	CCSA4M6X12	CCSA4M8X12			
	Std Pack	100	100	100	100	100			
16	Part Number	CCSA4M3X16	CCSA4M4X16	CCSA4M5X16	CCSA4M6X16	CCSA4M8X16			
	Std Pack	100	100	100	100	100			
20	Part Number	CCSA4M3X20	CCSA4M4X20	CCSA4M5X20	CCSA4M6X20	CCSA4M8X20	CCSA4M10X20	CCSA4M12X20	
	Std Pack	100	100	100	100	100	50	25	
25	Part Number	CCSA4M3X25	CCSA4M4X25	CCSA4M5X25	CCSA4M6X25	CCSA4M8X25	CCSA4M10X25	CCSA4M12X25	
	Std Pack	100	100	100	100	100	50	25	
30	Part Number	CCSA4M3X30	CCSA4M4X30	CCSA4M5X30	CCSA4M6X30	CCSA4M8X30	CCSA4M10X30	CCSA4M12X30	CCSA4M16X30
	Std Pack	100	100	100	100	100	50	25	25
35	Part Number			CCSA4M5X35	CCSA4M6X35	CCSA4M8X35	CCSA4M10X35	CCSA4M12X35	CCSA4M16X35
	Std Pack			100	100	100	50	25	25
40	Part Number	CCSA4M3X40	CCSA4M4X40	CCSA4M5X40	CCSA4M6X40	CCSA4M8X40	CCSA4M10X40	CCSA4M12X40	CCSA4M16X40
	Std Pack	100	100	100	100	100	50	25	25
45	Part Number			CCSA4M5X45	CCSA4M6X45	CCSA4M8X45	CCSA4M10X45	CCSA4M12X45	CCSA4M16X45
	Std Pack			100	100	100	50	25	25
50	Part Number	CCSA4M3X50	CCSA4M4X50	CCSA4M5X50	CCSA4M6X50	CCSA4M8X50	CCSA4M10X50	CCSA4M12X50	CCSA4M16X50
	Std Pack	100	100	100	100	100	50	25	25
60	Part Number		CCSA4M4X60	CCSA4M5X60	CCSA4M6X60	CCSA4M8X60	CCSA4M10X60	CCSA4M12X60	CCSA4M16X60
	Std Pack		100	100	50	50	50	25	25
70	Part Number			CCSA4M5X70	CCSA4M6X70	CCSA4M8X70	CCSA4M10X70	CCSA4M12X70	CCSA4M16X70
	Std Pack			100	50	50	50	25	25
80	Part Number			CCSA4M5X80	CCSA4M6X80	CCSA4M8X80	CCSA4M10X80	CCSA4M12X80	CCSA4M16X80
	Std Pack			100	50	50	50	25	25
90	Part Number					CCSA4M8X90	CCSA4M10X90	CCSA4M12X90	CCSA4M16X90
	Std Pack					50	50	25	25
100	Part Number				CCSA4M6X100	CCSA4M8X100	CCSA4M10X100	CCSA4M12X100	CCSA4M16X100
	Std Pack				50	50	50	25	25
100	Part Number				CCSA2M6X100	CCSA2M8X100	CCSA2M10X100	CCSA2M12X100	CCSA2M16X100
	Std Pack				50	50	50	25	25

All measurements are in mm

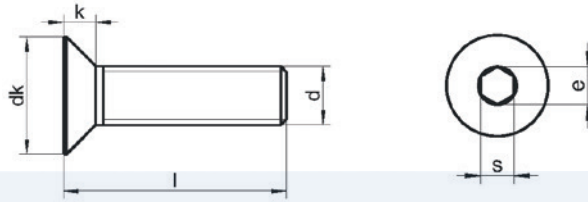
A2**304**

Countersunk Socket Screw

CCS

ANSI / ASME B18.3

UNC



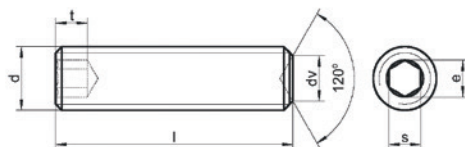
dk max.		0.36	0.41	0.53	0.66	0.78	0.94
k max.		0.11	0.13	0.16	0.20	0.23	0.25
s nom.		0.09	0.13	0.16	0.19	0.22	0.31
Length (l)	Size (d)	8-32	10-24	1/4	5/16	3/8	1/2
1/4	Part Number	CCSA2832UNCX14					
	Std Pack	100					
3/8	Part Number	CCSA2832UNCX38	CCSA21024UNCX38	CCSA214UNCX38			
	Std Pack	100	100	100			
1/2	Part Number	CCSA2832UNCX12	CCSA21024UNCX12	CCSA214UNCX12			
	Std Pack	100	100	100			
5/8	Part Number		CCSA21024UNCX58	CCSA214UNCX58			
	Std Pack		100	100			
3/4	Part Number	CCSA2832UNCX34	CCSA21024UNCX34	CCSA214UNCX34	CCSA2516UNCX34	CCSA238UNCX34	CCSA212UNCX34
	Std Pack	100	100	100	100	100	25
1	Part Number	CCSA2832UNCX1	CCSA21024UNCX1	CCSA214UNCX1	CCSA2516UNCX1	CCSA238UNCX1	CCSA212UNCX1
	Std Pack	100	100	100	100	100	25
1-1/4	Part Number			CCSA214UNCX114	CCSA2516UNCX114	CCSA238UNCX114	CCSA212UNCX114
	Std Pack			100	100	100	25
1-1/2	Part Number			CCSA214UNCX112	CCSA2516UNCX112	CCSA238UNCX112	CCSA212UNCX112
	Std Pack			100	100	100	25
2	Part Number			CCSA214UNCX2	CCSA2516UNCX2	CCSA238UNCX2	CCSA212UNCX2
	Std Pack			100	100	100	25

All measurements are in inches

Did you know?

Countersunk Head Socket Screws have a flat top and a tapered underside that is intended to be driven into a countersunk hole

Countersunk head socket screws have finer threads than wood screws. They are designed to be used in conjunction with a nut or tapped hole.



dv max.		1.40	2.00	2.50	3.00	5.00	6.00	8.00
t max.		2.00	2.50	3.00	3.50	5.00	6.00	8.00
s nom.		1.50	2.00	2.50	3.00	4.00	5.00	6.00
e min.		1.73	2.30	2.87	3.44	4.58	5.72	6.86
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12
3	Part Number	SSSA2M3X3						
	Std Pack	100						
4	Part Number	SSSA2M3X4	SSSA2M4X4	SSSA2M5X4				
	Std Pack	100	100	100				
5	Part Number	SSSA2M3X5	SSSA2M4X5	SSSA2M5X5	SSSA2M6X5			
	Std Pack	100	100	100	100			
6	Part Number	SSSA2M3X6	SSSA2M4X6	SSSA2M5X6	SSSA2M6X6	SSSA2M8X6		
	Std Pack	100	100	100	100	100		
8	Part Number	SSSA2M3X8	SSSA2M4X8	SSSA2M5X8	SSSA2M6X8	SSSA2M8X8		
	Std Pack	100	100	100	100	100		
10	Part Number	SSSA2M3X10	SSSA2M4X10	SSSA2M5X10	SSSA2M6X10	SSSA2M8X10	SSSA2M10X10	
	Std Pack	100	100	100	100	100	100	
12	Part Number	SSSA2M3X12	SSSA2M4X12	SSSA2M5X12	SSSA2M6X12	SSSA2M8X12	SSSA2M10X12	SSSA2M12X12
	Std Pack	100	100	100	100	100	100	100
16	Part Number	SSSA2M3X16	SSSA2M4X16	SSSA2M5X16	SSSA2M6X16	SSSA2M8X16	SSSA2M10X16	SSSA2M12X16
	Std Pack	100	100	100	100	100	100	100
20	Part Number	SSSA2M3X20	SSSA2M4X20	SSSA2M5X20	SSSA2M6X20	SSSA2M8X20	SSSA2M10X20	SSSA2M12X20
	Std Pack	100	100	100	100	100	100	100
25	Part Number		SSSA2M4X25	SSSA2M5X25	SSSA2M6X25	SSSA2M8X25	SSSA2M10X25	SSSA2M12X25
	Std Pack		100	100	100	100	100	100
30	Part Number			SSSA2M5X30	SSSA2M6X30	SSSA2M8X30	SSSA2M10X30	SSSA2M12X30
	Std Pack			100	100	100	100	100
40	Part Number					SSSA2M8X40	SSSA2M10X40	
	Std Pack					100	100	
50	Part Number					SSSA2M8X50	SSSA2M10X50	
	Std Pack					100	100	

All measurements are in mm

Did you know?

Socket set screws derive their holding power from compression of the point into the mating application

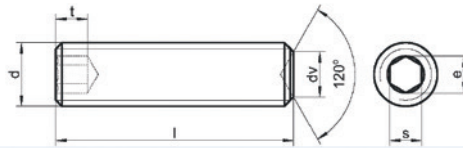
The more it is tightened, the greater the axial holding power of the screw. Common applications are shaft collars, crash bars on exit doors and knobs of many types.

A4**316**

Socket Set Screw -Cup Point

DIN 916 ISO 4029

METRIC

SSS

dv max.		1.40	2.00	2.50	3.00	5.00	6.00	8.00
t max.		2.00	2.50	3.00	3.50	5.00	6.00	8.00
s nom.		1.50	2.00	2.50	3.00	4.00	5.00	6.00
e min.		1.73	2.30	2.87	3.44	4.58	5.72	6.86
Length (l)	Size (d)	M3	M4	M5	M6	M8	M10	M12
3	Part Number	SSSA4M3X3						
	Std Pack	100						
4	Part Number	SSSA4M3X4	SSSA4M4X4					
	Std Pack	100	100					
5	Part Number	SSSA4M3X5	SSSA4M4X5	SSSA4M5X5				
	Std Pack	100	100	100				
6	Part Number	SSSA4M3X6	SSSA4M4X6	SSSA4M5X6	SSSA4M6X6			
	Std Pack	100	100	100	100			
8	Part Number	SSSA4M3X8	SSSA4M4X8	SSSA4M5X8	SSSA4M6X8	SSSA4M8X8		
	Std Pack	100	100	100	100	100		
10	Part Number	SSSA4M3X10	SSSA4M4X10	SSSA4M5X10	SSSA4M6X10	SSSA4M8X10	SSSA4M10X10	
	Std Pack	100	100	100	100	100	100	
12	Part Number	SSSA4M3X12	SSSA4M4X12	SSSA4M5X12	SSSA4M6X12	SSSA4M8X12	SSSA4M10X12	SSSA4M12X12
	Std Pack	100	100	100	100	100	100	100
16	Part Number	SSSA4M3X16	SSSA4M4X16	SSSA4M5X16	SSSA4M6X16	SSSA4M8X16	SSSA4M10X16	SSSA4M12X16
	Std Pack	100	100	100	100	100	100	100
20	Part Number	SSSA4M3X20	SSSA4M4X20	SSSA4M5X20	SSSA4M6X20	SSSA4M8X20	SSSA4M10X20	SSSA4M12X20
	Std Pack	100	100	100	100	100	100	100
25	Part Number		SSSA4M4X25	SSSA4M5X25	SSSA4M6X25	SSSA4M8X25	SSSA4M10X25	SSSA4M12X25
	Std Pack		100	100	100	100	100	100

All measurements are in mm

Common Set Screw Point Styles:

Cup: most commonly used style; the thin edge design allows for high holding power for applications requiring quick, permanent and semi-permanent part assemblies.

Cone: highest holding power due to the sharp cone shaped point which allows for deep penetration of the part; commonly used in the permanent setting of parts.

Flat: due to the flat point design, this style is used in applications where frequent adjustments are required and minimal surface damage is desired.

Half Dog: also known as Extended Point or Pilot Point; it features a round nub that protrudes from the bottom of the set screw, thus extended or pilot point. The point is designed to align or mate with a slot.

Oval: like the flat point design, this style is also used in applications where frequent adjustments are required and minimal surface damage is desired

Knurled: the grooves on the cup- point are designed to improve grip and prevent backing out or loosening. Internal and external knurled styled points are available depending on manufacturer.

BBS

Bugle Batten Screw - T17 With Ribs

A2**304**

METRIC



Length (mm)	Gauge	TPI	Part Number	Std Pack
35	14	10	BBSA214GX35	250
50	14	10	BBSA214GX50	250
65	14	10	BBSA214GX65	100
75	14	10	BBSA214GX75	100
100	14	10	BBSA214GX100	100
120	14	10	BBSA214GX120	100
150	14	10	BBSA214GX150	100

All measurements are in mm

BBS

Bugle Batten Screw - T17 With Ribs

A4**316**

METRIC



Length (mm)	Gauge	TPI	Part Number	Std Pack
50	14	10	BBSA414GX50	250
65	14	10	BBSA414GX65	100
75	14	10	BBSA414GX75	100
100	14	10	BBSA414GX100	100
120	14	10	BBSA414GX120	100
150	14	10	BBSA414GX150	100

All measurements are in mm

Did you know?

Bugle Batten Screws are pretty much an Australian invention

Traditionally, coach screws have been the fastener of choice for a lot of timber joints but either the hexagon head sticks up and causes trip hazards or the sharp edges and protrusions make them unsuitable for areas of public use, it also takes a fair amount of extra work to neatly countersink and sink the heads.

To get around this problem the Batten Screw was developed, it has a countersunk head so it lies flat in the timber and has an internal hex drive so you can get plenty of leverage to tighten them up. To make countersinking even easier they are manufactured with ribs under the head so you can drive them straight in and they will cut the countersink themselves. The head is also a special shape known as a bugle head instead of a straight countersink, the idea being the bugle form won't promote timber splitting as it countersinks due to the shallow change in angle.

A2**304**

Square Drive Decking Screw - T17

SDS

METRIC



Length (mm)	Gauge	TPI	Part Number	Std Pack
8	50	10	SDSA28GX50	200
10	40	12	SDA210GX40	200
10	50	12	SDSA210GX50	200
10	50	12	SDSA210GX50R	1000
10	65	12	SDSA210GX65	200
10	65	12	SDSA210GX65R	500
10	75	12	SDSA210GX75	200
12	65	11	SDSA212GX65	500

All measurements are in mm

A4**316**

Square Drive Decking Screw - T17

SDS

METRIC



Length (mm)	Gauge	TPI	Part Number	Std Pack
8	50	10	SDSA48GX50	200
10	40	10	SDSA410GX40	200
10	50	12	SDSA410GX50	200
10	50	12	SDSA410GX50R	1000
10	65	12	SDSA410GX65	200
10	65	12	SDSA410GX65R	500
10	75	12	SDSA410GX75	200
12	65	11	SDSA412GX65	500

All measurements are in mm

Did you know?

Decking Screws are for fixing hardwood or softwood to timber joists

Coarse thread and long sharp fluted point to capture chips in timber; Nibs under countersunk head help prevent timber particles when countersinking

SDT

Square Drive Decking Screw - T17 Trim Head

A2**304**

Length (mm)	Gauge	TPI	Part Number	Std Pack
8	50	10	SDTA28GX50	1000
10	50	8	SDTA210GX50	200
10	65	8	SDTA210GX65	200

All measurements are in mm

SDT

Square Drive Decking Screw - T17 Trim Head

A4**316**

Length (mm)	Gauge	TPI	Part Number	Std Pack
8	50	10	SDTA48GX50	1000

All measurements are in mm

Did you know?

Trim head deck screws are designed to disappear beneath the surface of your decking while getting rid of dimpling

They are the best option for those who want to minimize the appearance of screw heads on the deck surface. They also help to prevent your decking material from splitting when installing the screws using a power tool. Trim head screws can be used on different decking material. These include wood decking, treated lumber, PVC, and some composite materials.

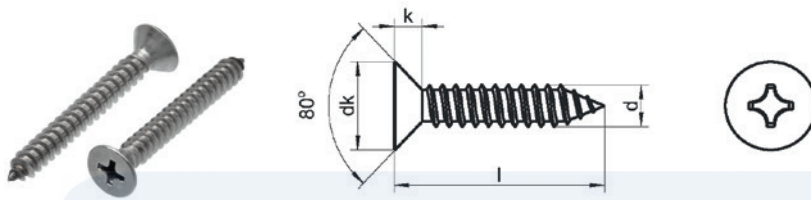
A2**304**

Countersunk Phillips Self Tapping Screw

CST

DIN 7982C ISO 7050

METRIC



dk max. k approx. xr no.		4.30 1.30 P1	5.50 1.70 P1	6.80 2.10 P2	8.10 2.50 P2	9.50 3.00 P2	10.80 3.40 P3	12.40 3.80 P3
Length (l)	Size (d)	2G (2.2mm)	4G (2.9mm)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)	12G (5.5mm)	14G (6.3mm)
6.5	Part Number	CSTA226X6	CSTA246X6	CSTA266X6	CSTA286X6			
	Std Pack	200	200	200	200			
9.5	Part Number	CSTA226X95	CSTA246X95	CSTA266X95	CSTA286X95	CSTA2106X95		
	Std Pack	200	200	200	200	100		
13	Part Number	CSTA226X13	CSTA246X13	CSTA266X13	CSTA286X13	CSTA2106X13	CSTA2126X13	CSTA2146X13
	Std Pack	200	200	200	200	100	100	100
16	Part Number	CSTA226X16	CSTA246X16	CSTA266X16	CSTA286X16	CSTA2106X16	CSTA2126X16	CSTA2146X16
	Std Pack	200	200	200	200	100	100	100
19	Part Number	CSTA226X19	CSTA246X19	CSTA266X19	CSTA286X19	CSTA2106X19	CSTA2126X19	CSTA2146X19
	Std Pack	200	200	200	200	100	100	100
25	Part Number	CSTA226X25	CSTA246X25	CSTA266X25	CSTA286X25	CSTA2106X25	CSTA2126X25	CSTA2146X25
	Std Pack	200	200	200	200	100	100	100
32	Part Number		CSTA246X32	CSTA266X32	CSTA286X32	CSTA2106X32	CSTA2126X32	CSTA2146X32
	Std Pack		200	200	200	100	100	100
38	Part Number			CSTA266X38	CSTA286X38	CSTA2106X38	CSTA2126X38	CSTA2146X38
	Std Pack			200	200	100	100	100
45	Part Number			CSTA266X45	CSTA286X45	CSTA2106X45	CSTA2126X45	CSTA2146X45
	Std Pack			200	200	100	100	100
50	Part Number			CSTA266X50	CSTA286X50	CSTA2106X50	CSTA2126X50	CSTA2146X50
	Std Pack			200	200	100	100	100
65	Part Number				CSTA286X65	CSTA2106X65	CSTA2126X65	CSTA2146X65
	Std Pack				100	100	100	100
75	Part Number				CSTA286X75	CSTA2106X75	CSTA2126X75	CSTA2146X75
	Std Pack				100	100	100	100
100	Part Number				CSTA286X100	CSTA2106X100	CSTA2126X100	CSTA2146X100
	Std Pack				100	100	100	100

All measurements are in mm

Did you know?

The Phillips head is an improvement to the slotted screw

Cross-shaped grooves that do not extend to the edge of the screw head accept a Phillips-head screwdriver. These heads, which have a slight circular shape where the slots cross, provide a larger mating surface between the screw and the screwdriver, which minimises wear and helps prevent slipping.

CST

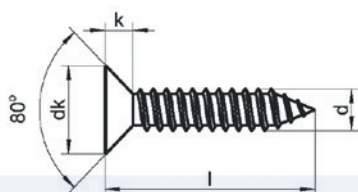
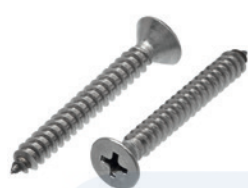
Countersunk Phillips Self Tapping Screw

DIN 7982C ISO 7050

METRIC

A4

316



dk max. k approx. xr no.		5.50 1.70 P1	6.80 2.10 P2	8.10 2.50 P2	9.50 3.00 P2	10.80 3.40 P3	12.40 3.80 P3
Length (l)	Size (d)	4G (2.9mm)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)	12G (5.5mm)	14G (6.3mm)
6.5	Part Number	CSTA446X6	CSTA466X6	CSTA486X6			
	Std Pack	100	100	100			
9.5	Part Number	CSTA446X95	CSTA466X95	CSTA486X95			
	Std Pack	100	100	100			
13	Part Number	CSTA446X13	CSTA466X13	CSTA486X13	CSTA4106X13	CSTA4126X13	CSTA4146X13
	Std Pack	100	100	100	100	100	100
16	Part Number	CSTA446X16	CSTA466X16	CSTA486X16	CSTA4106X16	CSTA4126X16	CSTA4146X16
	Std Pack	100	100	100	100	100	100
19	Part Number	CSTA446X19	CSTA466X19	CSTA486X19	CSTA4106X19	CSTA4126X19	CSTA4146X19
	Std Pack	100	100	100	100	100	100
25	Part Number	CSTA446X25	CSTA466X25	CSTA486X25	CSTA4106X25	CSTA4126X25	CSTA4146X25
	Std Pack	100	100	100	100	100	100
32	Part Number		CSTA466X32	CSTA486X32	CSTA4106X32	CSTA4126X32	CSTA4146X32
	Std Pack		100	100	100	100	100
38	Part Number		CSTA466X38	CSTA486X38	CSTA4106X38	CSTA4126X38	CSTA4146X38
	Std Pack		100	100	100	100	100
45	Part Number		CSTA466X45	CSTA486X45	CSTA4106X45	CSTA4126X45	CSTA4146X45
	Std Pack		100	100	100	100	100
50	Part Number		CSTA466X50	CSTA486X50	CSTA4106X50	CSTA4126X50	CSTA4146X50
	Std Pack		100	100	100	100	100
65	Part Number			CSTA486X65	CSTA4106X65	CSTA4126X65	CSTA4146X65
	Std Pack			100	100	100	100
75	Part Number			CSTA486X75	CSTA4106X75	CSTA4126X75	CSTA4146X75
	Std Pack			100	100	100	100
100	Part Number			CSTA486X100	CSTA4106X100	CSTA4126X100	CSTA4146X100
	Std Pack			100	100	100	100

All measurements are in mm

Did you know?

Self-tapping screws come in all sizes and tip types, and they have various shaped heads

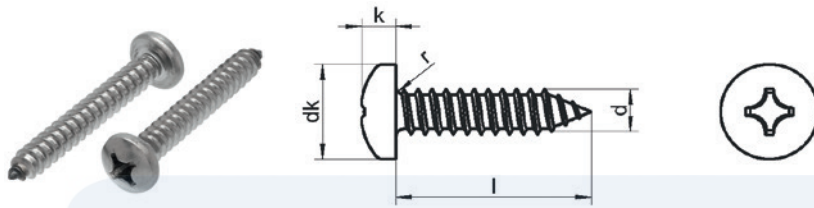
When you choose the right size self-tapping screw, you should consider the length of the screw tip, according to the material's thickness. There must be enough space for the tip of the drilled screw to fully enter the material before the threading begins. Otherwise the driving in of the screw will cause thread stripping and the result won't be properly secure.

A2**304**

Pan Phillips Self Tapping Screw

DIN 7981C ISO 7049

METRIC

PST

Length (l)	Size (d)	2G (2.2mm)	4G (2.9mm)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)	12G (5.5mm)	14G (6.3mm)
6.5	Part Number Std Pack	PSTA226X6 200	PSTA246X6 200	PSTA266X6 200	PSTA286X6 200			
9.5	Part Number Std Pack	PSTA226X95 200	PSTA246X95 200	PSTA266X95 200	PSTA286X95 200	PSTA2106X95 100		
13	Part Number Std Pack		PSTA246X13 200	PSTA266X13 200	PSTA286X13 200	PSTA2106X13 100	PSTA2126X13 100	PSTA2146X13 100
16	Part Number Std Pack		PSTA246X16 200	PSTA266X16 200	PSTA286X16 200	PSTA2106X16 100	PSTA2126X16 100	PSTA2146X16 100
19	Part Number Std Pack		PSTA246X19 200	PSTA266X19 200	PSTA286X19 200	PSTA2106X19 100	PSTA2126X19 100	PSTA2146X19 100
25	Part Number Std Pack		PSTA246X25 200	PSTA266X25 200	PSTA286X25 200	PSTA2106X25 100	PSTA2126X25 100	PSTA2146X25 100
32	Part Number Std Pack		PSTA246X32 200	PSTA266X32 200	PSTA286X32 200	PSTA2106X32 100	PSTA2126X32 100	PSTA2146X32 100
38	Part Number Std Pack			PSTA266X38 200	PSTA286X38 200	PSTA2106X38 100	PSTA2126X38 100	PSTA2146X38 100
45	Part Number Std Pack			PSTA266X45 200	PSTA286X45 200	PSTA2106X45 100	PSTA2126X45 100	PSTA2146X45 100
50	Part Number Std Pack			PSTA266X50 200	PSTA286X50 200	PSTA2106X50 100	PSTA2126X50 100	PSTA2146X50 100
65	Part Number Std Pack				PSTA286X65 100	PSTA2106X65 100	PSTA2126X65 100	PSTA2146X65 100
75	Part Number Std Pack				PSTA286X75 100	PSTA2106X75 100	PSTA2126X75 100	PSTA2146X75 100
100	Part Number Std Pack				PSTA286X100 100	PSTA2106X100 100	PSTA2126X100 100	PSTA2146X100 100

All measurements are in mm

Did you know?

Self Tapping Screws function by having a cutting edge which drills away the material, making a tiny hole for the screw to go into

This has nothing to do with the point of the screw, but has everything to do with the threads which are designed to cut through the material.

PST

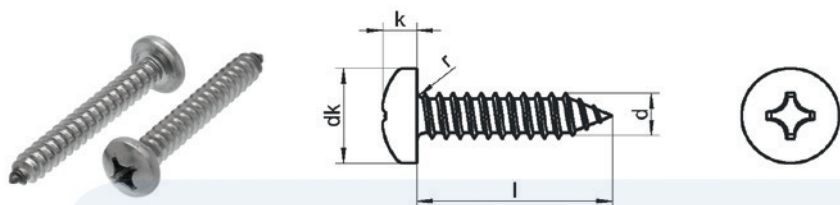
Pan Phillips Self Tapping Screw

DIN 7981C ISO 7049

METRIC

A4

316



dk max. k approx. xr no.		5.60 2.20 P1	6.90 2.60 P2	8.20 3.05 P2	9.50 3.55 P2	10.80 3.95 P3	12.50 4.55 P3
Length (l)	Size (d)	4G (2.9mm)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)	12G (5.5mm)	14G (6.3mm)
6.5	Part Number	PSTA446X6	PSTA466X6	PSTA486X6			
	Std Pack	100	100	100			
9.5	Part Number	PSTA446X95	PSTA466X95	PSTA486X95			
	Std Pack	100	100	100			
13	Part Number	PSTA446X13	PSTA466X13	PSTA486X13	PSTA4106X13	PSTA4126X13	PSTA4146X13
	Std Pack	100	100	100	100	100	100
16	Part Number	PSTA446X16	PSTA466X16	PSTA486X16	PSTA4106X16	PSTA4126X16	PSTA4146X16
	Std Pack	100	100	100	100	100	100
19	Part Number	PSTA446X19	PSTA466X19	PSTA486X19	PSTA4106X19	PSTA4126X19	PSTA4146X19
	Std Pack	100	100	100	100	100	100
25	Part Number	PSTA446X25	PSTA466X25	PSTA486X25	PSTA4106X25	PSTA4126X25	PSTA4146X25
	Std Pack	100	100	100	100	100	100
32	Part Number		PSTA466X32	PSTA486X32	PSTA4106X32	PSTA4126X32	PSTA4146X32
	Std Pack		100	100	100	100	100
38	Part Number		PSTA466X38	PSTA486X38	PSTA4106X38	PSTA4126X38	PSTA4146X38
	Std Pack		100	100	100	100	100
45	Part Number		PSTA466X45	PSTA486X45	PSTA4106X45	PSTA4126X45	PSTA4146X45
	Std Pack		100	100	100	100	100
50	Part Number		PSTA466X50	PSTA486X50	PSTA4106X50	PSTA4126X50	PSTA4146X50
	Std Pack		100	100	100	100	100
65	Part Number			PSTA486X65	PSTA4106X65	PSTA4126X65	PSTA4146X65
	Std Pack			100	100	100	100
75	Part Number			PSTA486X75	PSTA4106X75	PSTA4126X75	PSTA4146X75
	Std Pack			100	100	100	100
100	Part Number			PSTA486X100	PSTA4106X100	PSTA4126X100	PSTA4146X100
	Std Pack			100	100	100	100

All measurements are in mm

Did you know?

The most common uses for Self-Tapping Screws:

1 & 2 - layer thin gauge sheet metal securing

Fastening of aluminium sections to each other and into screw flutes

Screwing into plastic housings

Fixing metal brackets into ply and timber

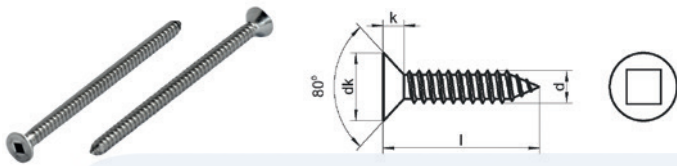
A2**304**

Countersunk Square Self Tapping Screw

CSQ

DIN 7982C ISO 7050

METRIC



dk max. k approx. xr no.		6.80 2.10 P2	8.10 2.50 P2	9.50 3.00 P2
Length (l)	Size (d)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)
13	Part Number	CSQA26GX13	CSQA28GX13	CSQA210GX13
	Std Pack	100	100	100
16	Part Number	CSQA26GX16	CSQA28GX16	CSQA210GX16
	Std Pack	100	100	100
19	Part Number	CSQA26GX19	CSQA28GX19	CSQA210GX19
	Std Pack	100	100	100
25	Part Number	CSQA26GX25	CSQA28GX25	CSQA210GX25
	Std Pack	100	100	100
32	Part Number	CSQA26GX32	CSQA28GX32	CSQA210GX32
	Std Pack	100	100	100
38	Part Number	CSQA26GX38	CSQA28GX38	CSQA210GX38
	Std Pack	100	100	100
45	Part Number	CSQA26GX45	CSQA28GX45	CSQA210GX45
	Std Pack	100	100	100
50	Part Number	CSQA26GX50	CSQA28GX50	CSQA210GX50
	Std Pack	100	100	100
65	Part Number		CSQA28GX65	CSQA210GX65
	Std Pack		100	100
75	Part Number		CSQA28GX75	CSQA210GX75
	Std Pack		100	100

All measurements are in mm

Did you know?

Self Tapping Screws create their own thread while turning

Therefore, it does not need matching female threads, like those in a nut from a nut/bolt set or machine screws.

PSQ

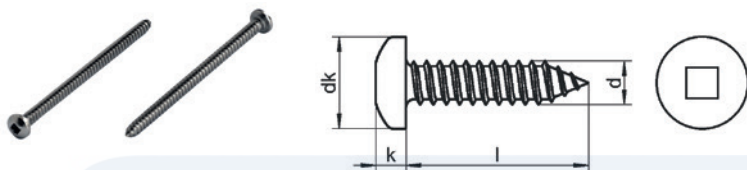
Pan Square Self Tapping Screw

DIN 7981C ISO 7049

METRIC

A2

304



dk max. k approx. xr no.		6.90 2.60 P2	8.20 3.05 P2	9.50 3.55 P2
Length (l)	Size (d)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)
13	Part Number Std Pack	PSQA26GX13 200	PSQA28GX13 100	PSQA210GX13 100
16	Part Number Std Pack	PSQA26GX16 200	PSQA28GX16 100	PSQA210GX16 100
19	Part Number Std Pack	PSQA26GX19 200	PSQA28GX19 100	PSQA210GX19 100
25	Part Number Std Pack	PSQA26GX25 200	PSQA28GX25 100	PSQA210GX25 100
32	Part Number Std Pack	PSQA26GX32 200	PSQA28GX32 100	PSQA210GX32 100
38	Part Number Std Pack	PSQA26GX38 200	PSQA28GX38 100	PSQA210GX38 100
45	Part Number Std Pack	PSQA26GX45 200	PSQA28GX45 100	PSQA210GX45 100
50	Part Number Std Pack	PSQA26GX50 200	PSQA28GX50 100	PSQA210GX50 100
65	Part Number Std Pack		PSQA28GX65 100	PSQA210GX65 100
75	Part Number Std Pack		PSQA28GX75 100	PSQA210GX75 100

All measurements are in mm

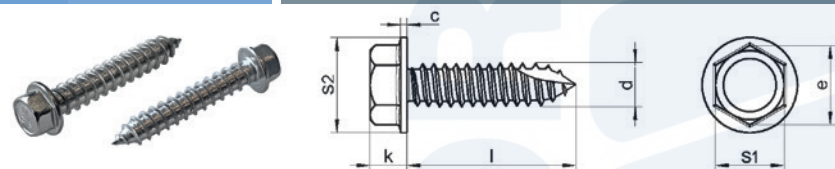
TPS

Hex Flange Pit Screw - T17

METRIC

A2

304



Type (d)	Length (l)	s1 max.	s2 max.	k max.	c min.	e	Part Number	Std Pack
14G	35.00	8.00	11.00	5.40	1.00	9.00	TPSA214GX35	500

All measurements are in mm

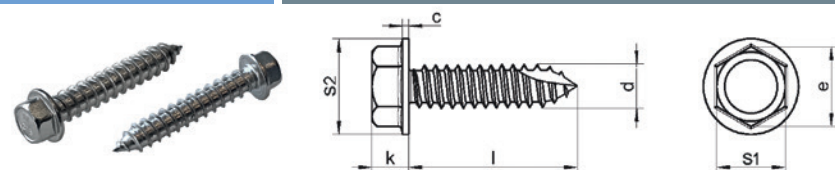
TPS

Hex Flange Pit Screw - T17

METRIC

A4

316



Type (d)	Length (l)	s1 max.	s2 max.	k max.	c min.	e	Part Number	Std Pack
14G	35.00	8.00	11.00	5.40	1.00	9.00	TPSA414GX35	500

All measurements are in mm

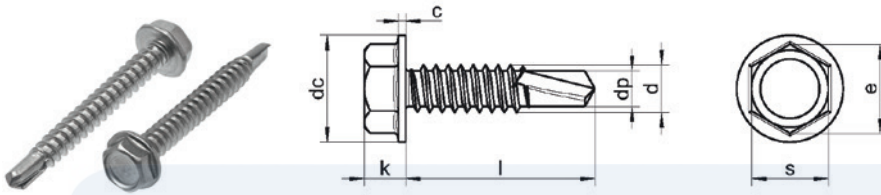
A2**304**

Hexagon Flange Self Drilling Screw

XDS

DIN 7504K

METRIC



dc max.		8.30	8.80	10.50	11.00	13.20
k max.		3.45	4.25	4.45	5.45	6.45
c min.		0.60	0.90	0.90	1.00	1.00
e min.		5.96	7.59	8.71	8.71	10.95
s max.		5.50	7.00	8.00	8.00	10.00
dp max.		2.80	3.60	4.10	4.80	5.80
Length (l)	Size (d)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)	12G (5.5mm)	14G (6.3mm)
9.5	Part Number	XDSA2M35X95				
	Std Pack	1000				
13	Part Number	XDSA2M35X13	XDSA2M42X13	XDSA2M48X13		
	Std Pack	1000	1000	1000		
16	Part Number	XDSA2M35X16	XDSA2M42X16	XDSA2M48X16		
	Std Pack	1000	1000	1000		
19	Part Number	XDSA2M35X19	XDSA2M42X19	XDSA2M48X19	XDSA2M55X19	XDSA2M63X19
	Std Pack	1000	1000	1000	1000	1000
22	Part Number		XDSA2M42X22	XDSA2M48X22	XDSA2M55X22	XDSA2M63X22
	Std Pack		1000	1000	1000	1000
25	Part Number	XDSA2M35X25	XDSA2M42X25	XDSA2M48X25	XDSA2M55X25	XDSA2M63X25
	Std Pack	1000	1000	1000	1000	1000
32	Part Number		XDSA2M42X32	XDSA2M48X32	XDSA2M55X32	XDSA2M63X32
	Std Pack		1000	1000	1000	1000
38	Part Number		XDSA2M42X38	XDSA2M48X38	XDSA2M55X38	XDSA2M63X38
	Std Pack		1000	1000	1000	1000
45	Part Number		XDSA2M42X45	XDSA2M48X45	XDSA2M55X45	XDSA2M63X45
	Std Pack		1000	1000	1000	500
50	Part Number		XDSA2M42X50	XDSA2M48X50	XDSA2M55X50	XDSA2M63X50
	Std Pack		1000	1000	500	1000
60	Part Number				XDSA2M55X60	
	Std Pack				1000	
70	Part Number				XDSA2M55X70	
	Std Pack				1000	

All measurements are in mm

Did you know?

The most common uses for Self-Drilling Screws:

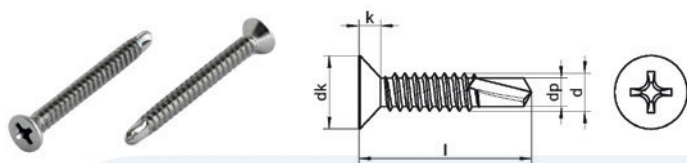
- Cladding and metal roofing
- HVAC – duct, clips and brackets
- Carports/sheds/garages
- General construction
- Steel framing

CDS

Countersunk Phillips Self Drilling Screw

DIN 75040

METRIC

A2**304**

dk max.		6.80	8.10	9.50
k max.		2.10	2.50	3.00
dp max.		2.80	3.60	4.10
Length (l)	Size (d)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)
13	Part Number	CDSA2M35X13	CDSA2M42X13	CDSA2M48X13
	Std Pack	1000	1000	1000
16	Part Number	CDSA2M35X16	CDSA2M42X16	CDSA2M48X16
	Std Pack	1000	1000	1000
19	Part Number	CDSA2M35X19	CDSA2M42X19	CDSA2M48X19
	Std Pack	1000	1000	1000
22	Part Number	CDSA2M35X22	CDSA2M42X22	CDSA2M48X22
	Std Pack	1000	1000	1000
25	Part Number	CDSA2M35X25	CDSA2M42X25	CDSA2M48X25
	Std Pack	1000	1000	1000
32	Part Number		CDSA2M42X32	CDSA2M48X32
	Std Pack		1000	1000
38	Part Number		CDSA2M42X38	CDSA2M48X38
	Std Pack		1000	1000
45	Part Number		CDSA2M42X45	CDSA2M48X45
	Std Pack		1000	1000
50	Part Number		CDSA2M42X50	CDSA2M48X50
	Std Pack		1000	1000
60	Part Number		CDSA2M42X60	
	Std Pack		1000	

All measurements are in mm

Did you know?

Self Drilling Screws are similar to sheet metal screws

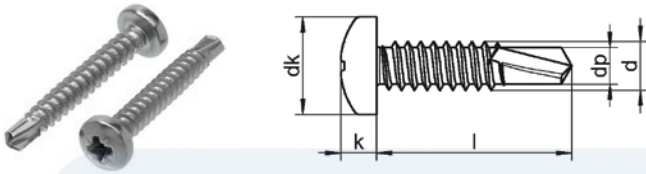
The difference is that they have a drill-shaped point to cut through sheet metal or steel which eliminates the need for drilling a pilot hole. These self-drilling screws are designed for use in soft steel or other metals.

A2**304**

Pan Phillips Self Drilling Screw

DIN 7504M

METRIC

PDS

dk max.		6.80	8.10	9.50
k approx.		2.10	2.50	3.00
dp max.		2.80	3.60	4.10
Length (l)	Size (d)	6G (3.5mm)	8G (4.2mm)	10G (4.8mm)
9.5	Part Number	PDSA2M35X95		
	Std Pack	1000		
13	Part Number	PDSA2M35X13	PDSA2M42X13	PDSA2M48X13
	Std Pack	1000	1000	1000
16	Part Number	PDSA2M35X16	PDSA2M42X16	PDSA2M48X16
	Std Pack	1000	1000	1000
19	Part Number	PDSA2M35X19	PDSA2M42X19	PDSA2M48X19
	Std Pack	1000	1000	1000
22	Part Number	PDSA2M35X22	PDSA2M42X22	PDSA2M48X22
	Std Pack	1000	1000	1000
25	Part Number	PDSA2M35X25	PDSA2M42X25	PDSA2M48X25
	Std Pack	1000	1000	1000
32	Part Number		PDSA2M42X32	PDSA2M48X32
	Std Pack		1000	1000
38	Part Number		PDSA2M42X38	PDSA2M48X38
	Std Pack		1000	1000
45	Part Number		PDSA2M42X45	PDSA2M48X45
	Std Pack		1000	1000
50	Part Number		PDSA2M42X50	PDSA2M48X50
	Std Pack		1000	1000

All measurements are in mm

Did you know?

Self Drilling Screws are also called other names

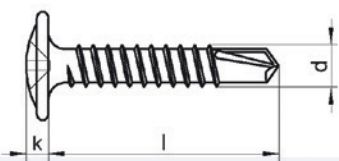
Self-drillers are also commonly called 'Tek' screws, a proprietary brand name associated with their unique shape and function. They can also be called Pro Points or Drill Bit Tip Screws.

WDS

Wafer Phillips Self Drilling Screw

DIN 7504N

METRIC

A2**304**

d1 max. k approx.		7.80 2.40	8.70 2.60	10.30 3.30
Length (l)	Size (d)	8G (4.2mm)	10G (4.8mm)	12G (5.5mm)
13	Part Number	WDSA2M42X13		
	Std Pack	1000		
16	Part Number	WDSA2M42X16	WDSA2M48X16	
	Std Pack	1000	1000	
19	Part Number	WDSA2M42X19	WDSA2M48X19	WDSA2M55X19
	Std Pack	1000	1000	1000
22	Part Number	WDSA2M42X22	WDSA2M48X22	WDSA2M55X22
	Std Pack	1000	1000	1000
25	Part Number	WDSA2M42X25	WDSA2M48X25	WDSA2M55X25
	Std Pack	1000	1000	1000
32	Part Number	WDSA2M42X32	WDSA2M48X32	WDSA2M55X32
	Std Pack	1000	1000	1000
38	Part Number	WDSA2M42X38	WDSA2M48X38	WDSA2M55X38
	Std Pack	1000	1000	1000
45	Part Number	WDSA2M42X45	WDSA2M48X45	WDSA2M55X45
	Std Pack	1000	1000	1000
50	Part Number	WDSA2M42X50	WDSA2M48X50	WDSA2M55X50
	Std Pack	1000	1000	1000

All measurements are in mm

DBI

Driver Bit



Type	Length	Part Number	Std Pack
#1	25.00	DBI25MM1SQ	10
#2	50.00	DBI50MM2SQ	10

All measurements are in mm

A2**R Clip****RCL****304**

METRIC



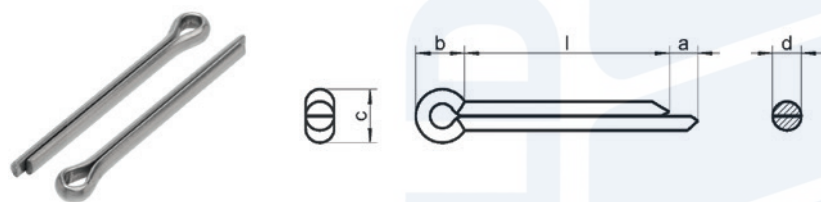
Size (Ø)	A	B	Part Number	Std Pack
M2.0	40.00	9.53	RCLA2M2X40	200
M2.4	59.00	15.88	RCLA2M24X59	200
M3.2	68.00	14.29	RCLA2M32X68	100
M3.8	75.00	19.05	RCLA2M38X75	100
M5.0	96.00	23.81	RCLA2M5X96	50
M6.2	102.00	23.81	RCLA2M62X102	50

All measurements are in mm

A2**Split Pin (Cotter Pin)****SPI****304**

DIN 94 ISO 1234

METRIC



	a	1.60	1.60	2.50	2.50	2.50	2.50
	b	2.40	3.00	3.00	4.00	4.00	5.00
	c	1.40	1.80	2.00	3.60	3.60	4.60
Length (l)	Size (d)	0.8	1.0	1.2	1.6	2	2.5
10	Part Number	SPIA2M08X10	SPIA2M1X10		SPIA2M16X10	SPIA2M2X10	
	Std Pack	200	200		200	200	
12	Part Number	SPIA2M08X12	SPIA2M1X12	SPIA2M12X12	SPIA2M16X12	SPIA2M2X12	SPIA2M25X12
	Std Pack	200	200	200	200	200	200
14	Part Number				SPIA2M16X14		
	Std Pack				200		
16	Part Number	SPIA2M08X16	SPIA2M1X16	SPIA2M12X16	SPIA2M16X16	SPIA2M2X16	SPIA2M25X16
	Std Pack	200	200	200	200	200	200
20	Part Number	SPIA2M08X20	SPIA2M1X20	SPIA2M12X20	SPIA2M16X20	SPIA2M2X20	SPIA2M25X20
	Std Pack	200	200	200	200	200	200
25	Part Number		SPIA2M1X25	SPIA2M12X25	SPIA2M16X25	SPIA2M2X25	SPIA2M25X25
	Std Pack		200	200	200	200	200
32	Part Number			SPIA2M12X32	SPIA2M16X32	SPIA2M2X32	SPIA2M25X32
	Std Pack			200	200	200	200
36	Part Number						SPIA2M25X36
	Std Pack						200
40	Part Number				SPIA2M16X40	SPIA2M2X40	SPIA2M25X40
	Std Pack				200	200	200
50	Part Number						SPIA2M25X50
	Std Pack						200

All measurements are in mm

SPI

Split Pin (Cotter Pin)

DIN 94 ISO 1234

METRIC

A2

304



a		3.20	4.00	4.00	4.00	4.00	6.30
b		6.40	8.00	10.00	12.60	16.00	20.00
c		5.80	7.40	9.20	11.80	15.00	19.00
Length (l)	Size (d)	3.2	4.0	5	6.3	8	10
10	Part Number	SPIA2M32X10					
	Std Pack	200					
12	Part Number	SPIA2M32X12					
	Std Pack	200					
16	Part Number	SPIA2M32X16					
	Std Pack	200					
20	Part Number	SPIA2M32X20	SPIA2M4X20	SPIA2M5X20			
	Std Pack	200	100	100			
25	Part Number	SPIA2M32X25	SPIA2M4X25	SPIA2M5X25	SPIA2M63X25		
	Std Pack	200	100	100	100		
32	Part Number	SPIA2M32X32	SPIA2M4X32	SPIA2M5X32	SPIA2M63X32		
	Std Pack	200	100	100	100		
36	Part Number	SPIA2M32X36	SPIA2M4X36	SPIA2M5X36			
	Std Pack	200	100	100			
40	Part Number	SPIA2M32X40	SPIA2M4X40	SPIA2M5X40	SPIA2M63X40		
	Std Pack	200	100	100	100		
45	Part Number	SPIA2M32X45	SPIA2M4X45	SPIA2M5X45	SPIA2M63X45		
	Std Pack	200	100	100	100		
50	Part Number	SPIA2M32X50	SPIA2M4X50	SPIA2M5X50	SPIA2M63X50	SPIA2M8X50	SPIA2M10X50
	Std Pack	200	100	100	100	50	50
63	Part Number	SPIA2M32X63	SPIA2M4X63	SPIA2M5X63	SPIA2M63X63	SPIA2M8X63	SPIA2M10X63
	Std Pack	200	100	100	100	50	50
71	Part Number			SPIA2M5X71			
	Std Pack			100			
80	Part Number	SPIA2M32X80	SPIA2M4X80	SPIA2M5X80	SPIA2M63X80	SPIA2M8X80	SPIA2M10X80
	Std Pack	200	100	100	100	50	50
90	Part Number			SPIA2M5X90		SPIA2M8X90	SPIA2M10X90
	Std Pack			100		50	50
100	Part Number			SPIA2M5X100	SPIA2M63X100	SPIA2M8X100	SPIA2M10X100
	Std Pack			100	100	50	50

All measurements are in mm

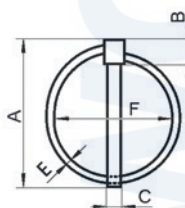
LPI

Linch Pin

METRIC

A2

304



Size (Ø)	A	B	C	E	F	Part Number	Std Pack
M4	49.60	7.50	4.40	2.40	39.00	LPIA2M4	20
M6	56.20	8.00	6.00	3.20	44.80	LPIA2M6	20
M8	56.50	8.40	7.40	3.10	44.90	LPIA2M8	10
M10	56.50	10.70	10.60	3.20	43.40	LPIA2M10	10

All measurements are in mm

A4**316****Wire Rope - 1x19 Construction - Rigid****WRO**

METRIC



Size (Ø)	3.2 (MBL 8.44kN)	4.0 (MBL 13.20kN)	5.0 (MBL 20.61kN)	6.0 (MBL 29.67kN)
Part Number	WR01X19A4M32X50			
Length (m)	50			
Part Number	WR01X19A4M32X100			
Length (m)	100			
Part Number	WR01X19A4M32	WR01X19A4M4	WR01X19A4M5	WR01X19A4M6
Length (m)	305	305	305	305
Part Number	WR01X19A4M32X1000			
Length (m)	1000			

All measurements are in mm

A4**316****Wire Rope - 7x7 Construction - Semi Flexible****WRO**

METRIC



Size (Ø)	0.6 (MBL 0.22kN)	1.0 (MBL 0.61kN)	1.5 (MBL 1.37kN)	2.0 (MBL 2.44kN)	2.5 (MBL 3.81kN)	3.2 (MBL 6.24kN)
Part Number						WR07X7A4M32X50
Length (m)						50
Part Number						WR07X7A4M32X100
Length (m)						100
Part Number	WR07X7A4M06	WR07X7A4M1	WR07X7A4M15	WR07X7A4M2	WR07X7A4M25	WR07X7A4M32
Length (m)	305	305	305	305	305	305
Part Number						WR07X7A4M32X1000
Length (m)						1000

Size (Ø)	4.0 (MBL 9.75kN)	5.0 (MBL 15.23kN)	6.0 (MBL 22.00kN)	8.0 (MBL 39.00kN)
Part Number			WR07X7A4M6X50	WR07X7A4M8X50
Length (m)			50	50
Part Number	WR07X7A4M4X100	WR07X7A4M5X100		
Length (m)	100	100		
Part Number	WR07X7A4M4	WR07X7A4M5	WR07X7A4M6	WR07X7A4M8
Length (m)	305	305	305	305
Part Number				
Length (m)				

All measurements are in mm

Did you know?

1x19 Wire Rope is very stiff

It is commonly used for fixed “straight line” rigging only such as mast stays and structural applications.

WRO

Wire Rope - 7X19 Construction - Flexible

A4**316**

METRIC



Size (Ø)	1.5 (MBL 1.28kN)	2.0 (MBL 2.27kN)	2.5 (MBL 3.55kN)	3.2 (MBL 5.82kN)	4.0 (MBL 9.09kN)
Part Number	WR07X19A4M32X50				
Length (m)	50				
Part Number	WR07X19A4M32X100			WR07X19A4M4X100	
Length (m)	100			100	
Part Number	WR07X19A4M15	WR07X19A4M2	WR07X19A4M25	WR07X19A4M32	WR07X19A4M4
Length (m)	305	305	305	305	305
Part Number	WR07X19A4M32X1000				
Length (m)	1000				

Size (Ø)	5.0 (MBL 14.21kN)	6.0 (MBL 20.50kN)	8.0 (MBL 36.40kN)	10.0 (MBL 82.43kN)	12.0 (MBL 118.69kN)
Part Number	WR07X19A4M6X50		WR07X19A4M8X50	WR07X19A4M10X50	WR07X19A4M12X50
Length (m)	50		50	50	50
Part Number	WR07X19A4M5X100				
Length (m)	100				
Part Number	WR07X19A4M5	WR07X19A4M6	WR07X19A4M8	WR07X19A4M10	WR07X19A4M12
Length (m)	305	305	305	305	305

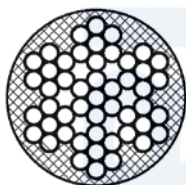
All measurements are in mm

WRO

Wire Rope PVC (White) - 7x7 Construction - Insulated

A4**316**

METRIC



Size (Ø)	3.2 (4mm O.D) (MBL 6.24kN)	4.0 (5mm O.D) (MBL 15.23kN)
Part Number	WR0PVC7X7A4M32	WR0PVC7X7A4M4
Length (m)	305	305

All measurements are in mm

Did you know?

7x19 Wire Rope is flexible

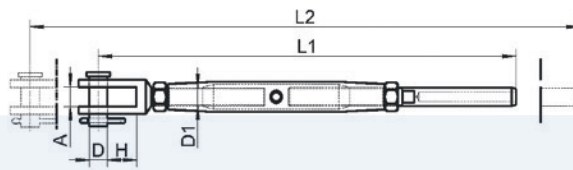
It is the most flexible and easiest construction to work with. Commonly used in either fixed rigging or limited working rope applications such as on a boat winch.

A4

Rigging Screw Jaw / Swage

RSC**316**

METRIC



Size (D1)	L1	A	D	H	L2	Cable size mm	Part Number	Std Pack
M5	155.00	6.50	5.00	10.00	215.00	3.20	RSCA4M5X32	10
M6	175.00	7.50	6.00	10.00	245.00	4.00	RSCA4M6X4	5
M10	230.00	12.00	9.00	14.00	320.00	5.00	RSCA4M10X5	5
M12	285.00	14.00	12.00	20.00	400.00	6.00	RSCA4M12X6	5

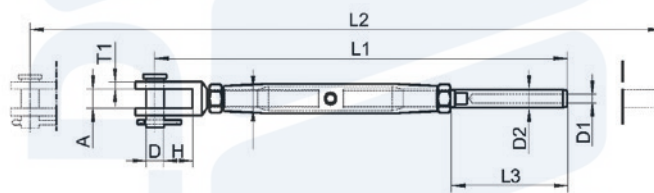
All measurements are in mm

A4

Rigging Screw Mini Jaw / Swage

RSM**316**

METRIC



Size (D)B5:M6	L1	L2	L3	A	H	T1	D1	D2	Cable size mm	Part Number	Std Pack
M5	102.00	135.00	16.50	7.80	10.00	2.00	3.50	6.30	3.20	RSMA4M5X32	10

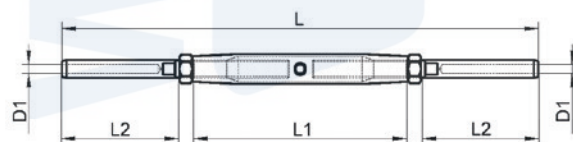
All measurements are in mm

A4

Rigging Screw Swage / Swage

RSS**316**

METRIC



Size	L	L1	L2	D1	Cable size mm	Part Number	Std Pack
M5	190.00	80.00	52.00	3.00	3.20	RSSA4M5X32	10

All measurements are in mm

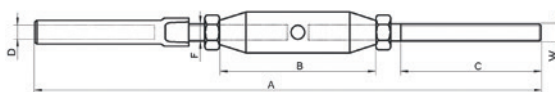
RMS

Rigging Screw Machine Thread / Swage

A4

316

METRIC



Size (W)	F	A	B	C	D	Cable size mm	Part Number	Std Pack
M6	5.00	190.00	80.00	40.00	3.20	3.20	RMSA4M6X32	10

All measurements are in mm

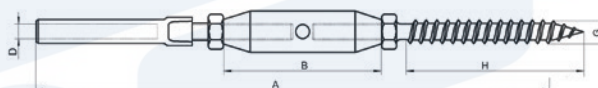
RLS

Rigging Screw Lag / Swage

A4

316

METRIC



Size (G)	A	B	D	H	Cable size mm	Part Number	Std Pack	Std Pack
M5	185.00	80.00	3.50	40.00	3.20	RLSA4M5X32	10	10

All measurements are in mm

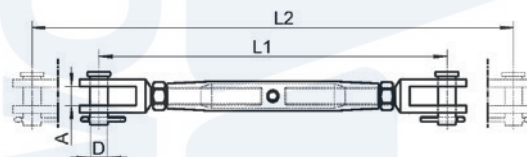
RTB

Rigging Screw Jaw / Jaw

A4

316

METRIC



Size (D)	L2	L1	A	Part Number	Std Pack
M5	125.00	80.00	10.50	RTBA4M5	10
M6	140.00	92.00	10.50	RTBA4M6	5
M8	170.00	112.00	11.50	RTBA4M8	5
M10	190.00	120.00	15.50	RTBA4M10	2
M12	240.00	150.00	19.20	RTBA4M12	2

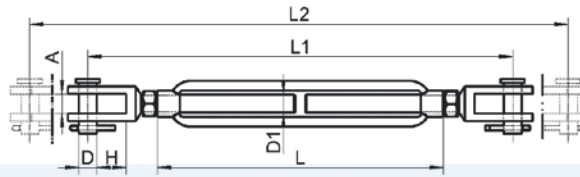
All measurements are in mm

A4

Turnbuckle With Nuts Jaw / Jaw

TJJ**316**

METRIC



Size (D1)	L1	L2	L	A	D	H	Part Number	Std Pack
M5	120.00	170.00	70.00	6.50	5.00	10.00	TJJA4M5	10
M6	140.00	205.00	90.00	7.50	6.00	10.00	TJJA4M6	5
M8	180.00	270.00	120.00	11.00	8.00	11.00	TJJA4M8	5
M10	220.00	330.00	150.00	12.00	9.00	14.00	TJJA4M10	2
M12	300.00	455.00	200.00	14.00	12.00	20.00	TJJA4M12	2

All measurements are in mm

A4

Turnbuckle With Nuts Eye / Eye

TEE**316**

METRIC



Size (D1)	L	L1	D	Part Number	Std Pack
M4	55.00	100.00	8.00	TEEA4M4	10
M5	70.00	120.00	8.00	TEEA4M5	10
M6	90.00	150.00	10.00	TEEA4M6	5
M8	120.00	200.00	14.00	TEEA4M8	5
M10	150.00	240.00	16.00	TEEA4M10	2
M12	200.00	310.00	18.00	TEEA4M12	2
M16	250.00	390.00	26.00	TEEA4M16	1
M20	300.00	440.00	30.00	TEEA4M20	1

All measurements are in mm

Did you know?

Rigging screws are used to provide a means for length adjustment and for tensioning. They are also used with guys for masts, towers, other structures and engineering applications.

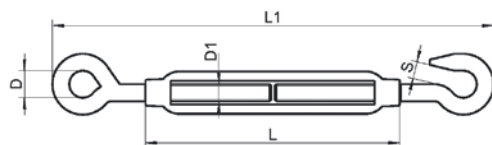
THE

Turnbuckle With Nuts Hook / Eye

A4

316

METRIC



Size (D1)	L	L1	D	S	Part Number	Std Pack
M4	55.00	100.00	8.00	8.00	THEA4M4	10
M5	70.00	120.00	8.00	8.00	THEA4M5	10
M6	90.00	150.00	10.00	9.00	THEA4M6	5
M8	120.00	200.00	14.00	11.00	THEA4M8	5
M10	150.00	240.00	16.00	12.00	THEA4M10	2
M12	200.00	310.00	18.00	14.00	THEA4M12	2
M16	250.00	390.00	26.00	16.00	THEA4M16	1
M20	300.00	440.00	30.00	18.00	THEA4M20	1

All measurements are in mm

THH

Turnbuckle With Nuts Hook / Hook

A4

316

METRIC



Size (D1)	L	L1	S	Part Number	Std Pack
M4	55.00	100.00	8.00	THHA4M4	10
M5	70.00	120.00	8.00	THHA4M5	10
M6	90.00	150.00	9.00	THHA4M6	5
M8	120.00	200.00	11.00	THHA4M8	5
M10	150.00	240.00	12.00	THHA4M10	2
M12	200.00	310.00	14.00	THHA4M12	2
M16	250.00	390.00	16.00	THHA4M16	1
M20	300.00	440.00	18.00	THHA4M20	1

All measurements are in mm

Did you know?

Turnbuckles have the same applications as rigging screws

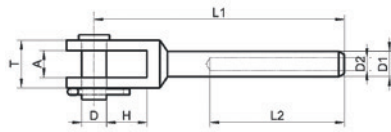
They have a generally smaller size range and shorter adjustment. The main benefit of a turnbuckle is that it may have a greater ability to be tightened under load.

A4**316**

Fork Terminal Jaw / Swage

FTE

METRIC



Size (D)	Wire Size	L1	L2	A	D1	D2	H	Part Number	Std Pack
M5	3.20	65.00	38.00	7.50	6.35	3.50	9.00	FTEA4M5X32	10
M6	4.00	65.00	32.00	8.20	7.50	4.40	10.00	FTEA4M6X4	5
M8	5.00	73.00	45.00	9.20	9.00	5.30	14.00	FTEA4M8X5	2
M10	6.00	88.00	57.00	12.00	12.50	6.40	20.00	FTEA4M10X6	2

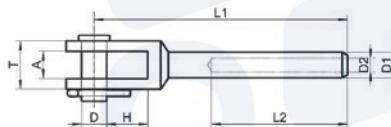
All measurements are in mm

A4**316**

Fork Terminal Mini Jaw / Swage

FTM

METRIC



Size (D)	Wire Size	L1	L2	A	D1	D2	H	T	Part Number	Std Pack
M5	3.20	46.00	25.50	7.80	6.20	3.30	10.00	11.50	FTMA4M5X32	10

All measurements are in mm

Did you know?

Fork Terminals are hydraulically swaged (connected) to the wire to form a terminating end (terminal) that is normally fastened to a saddle or a lag screw eye

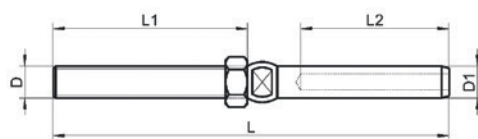
Fork Terminals are commonly used in shade structures, wire balustrade, architectural rigging, wire rope, marine applications, and general-purpose applications.

STE

Swage / Stud Terminal

A4

316



Size (D)	Wire Size	Thread	L	L1	L2	D1	Part Number	Std Pack
M5	3.20	Right	90.00	40.00	22.00	6.00	STEA4M5X32	10
M5	3.20	Left	90.00	40.00	22.00	6.00	STEA4M5X32L	10
M6	3.20	Right	100.00	48.00	39.00	6.00	STEA4M6X32	10
M6	3.20	Left	100.00	48.00	39.00	6.00	STEA4M6X32L	10
M6	4.00	Right	100.00	48.00	39.00	7.50	STEA4M6X4	5
M6	4.00	Left	100.00	48.00	39.00	7.50	STEA4M6X4L	5
M10	5.00	Right	170.00	56.00	60.00	9.00	STEA4M10X5	2

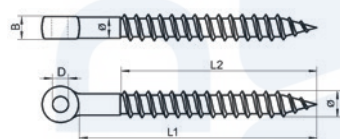
All measurements are in mm

LES

Lag Eye Screw

A4

316



Size	L1	L2	D	B	Part Number	Std Pack
M6	40.00	35.00	6.30	7.00	LESA4M6X40	10
M6	60.00	40.00	6.30	7.00	LESA4M6X60	10
M8	60.00	40.00	8.40	9.00	LESA4M8X60	5
M8	80.00	55.00	8.40	9.00	LESA4M8X80	5
M10	80.00	55.00	10.20	11.00	LESA4M10X80	5
M10	100.00	65.00	10.20	11.00	LESA4M10X100	5

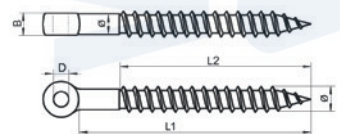
All measurements are in mm

LES

Lag Eye Screw - Small Eye

A4

316



Size	L1	L2	D	B	Part Number	Std Pack
M6	60.00	40.00	6.30	5.60	LESA4M6X60S	10

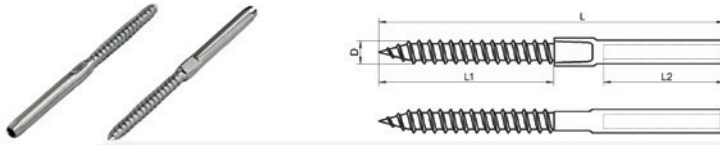
All measurements are in mm

A4

Lag / Swage Terminal

LST**316**

METRIC



Size (D)	Wire Dia.	Thread	L	L1	L2	Part Number	Std Pack
M6	3.20	Right	97.00	48.00	38.00	LSTA4M6X32	10
M6	3.20	Left	97.00	48.00	38.00	LSTA4M6X32L	10
M8	4.00	Right	115.00	54.00	45.00	LSTA4M8X4	5
M8	4.00	Left	115.00	54.00	45.00	LSTA4M8X4L	5

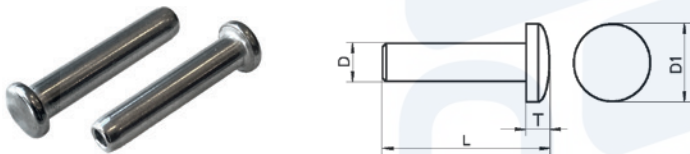
All measurements are in mm

A4

Rod Terminal

RTE**316**

METRIC



Size (D)	Wire Rope	D1	L	T	Part Number	Std Pack
M6	3.20	10.00	32.00	3.00	RTEA4M6X32	10

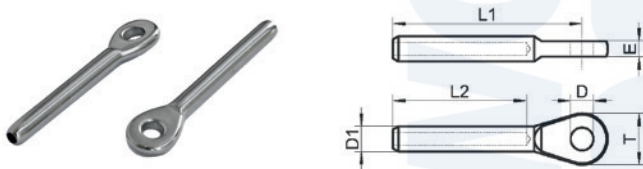
All measurements are in mm

A4

Eye Terminal

ETE**316**

METRIC



Size (D1)	Wire Size	L1	L2	E	D	T	Part Number	Std Pack
M6	3.20	55.00	36.00	4.00	6.50	14.00	ETEA4M6X32	10
M8	4.00	65.00	39.00	6.00	8.50	18.00	ETEA4M8X4	5
M10	5.00	80.00	50.00	7.00	10.00	22.00	ETEA4M10X5	2
M12	6.00	94.00	62.00	8.00	12.50	28.00	ETEA4M12X6	2

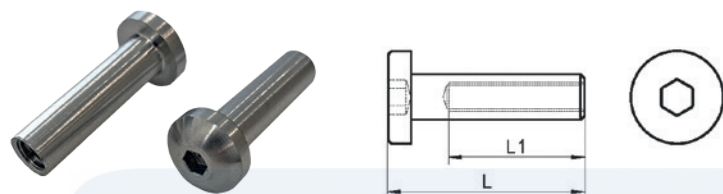
All measurements are in mm

XST

Hex Socket Tensioner

A4

316



Size	L	L1	Part Number	Std Pack
M6	33.00	27.50	XSTA4M6	10

All measurements are in mm

WES

Wire Eye Strap

A2

304



Size (D)	D1	L	H	Part Number	Std Pack
M4	3.20	40.00	16.00	WESA2M4	10
M5	4.20	50.00	18.00	WESA2M5	10
M6	5.00	60.00	22.00	WESA2M6	10
M8	6.00	63.00	24.00	WESA2M8	10

All measurements are in mm

WES

Wire Eye Strap

A4

316



Size (D)	D1	L	H	Part Number	Std Pack
M4	3.20	40.00	16.00	WESA4M4	10
M5	4.20	50.00	18.00	WESA4M5	10
M6	5.00	60.00	22.00	WESA4M6	10
M8	6.00	63.00	24.00	WESA4M8	10

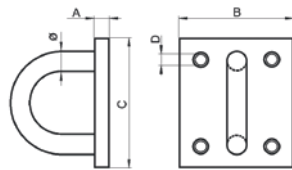
All measurements are in mm

A2

Square Eye Pad

SEP**304**

METRIC



Size Ø	A	B	C	D	Part Number	Std Pack
M5	2.50	30.00	35.00	4.30	SEPA2M5	10
M6	2.50	35.00	40.00	5.30	SEPA2M6	10
M8	3.00	40.00	50.00	5.50	SEPA2M8	5
M10	3.50	48.00	60.00	5.50	SEPA2M10	5

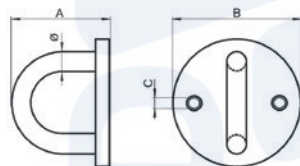
All measurements are in mm

A4

Round Eye Pad

REP**316**

METRIC



Size Ø	A	B	C	Part Number	Std Pack
M5	20.50	33.00	4.50	REPA4M5	10
M6	25.50	40.00	4.50	REPA4M6	10
M8	31.00	50.00	5.50	REPA4M8	5

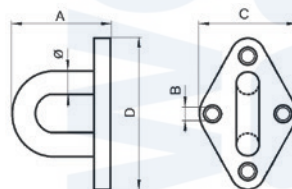
All measurements are in mm

A4

Diamond Eye Pad

DEP**316**

METRIC

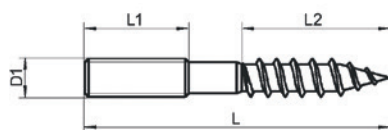


Size Ø	A	B	C	D	Part Number	Std Pack
M5	22.50	4.00	36.50	59.00	DEPA4M5	10
M6	26.50	4.00	39.50	64.00	DEPA4M6	10
M8	33.00	5.00	50.00	80.00	DEPA4M8	5

All measurements are in mm

DTS**Double Thread Screw - Lag/Machine****A4****316**

METRIC

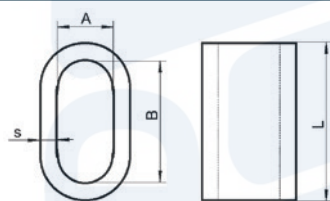
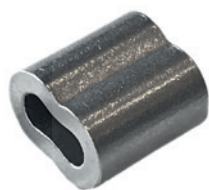


Size (D1)	L	L1	L2	Part Number	Std Pack
M8	100.00	47.00	40.00	DTSA4M8X100	5
M10	60.00	37.00	20.00	DTSA4M10X60	5
M10	80.00	47.00	20.00	DTSA4M10X80	5
M10	100.00	57.00	30.00	DTSA4M10X100	5

All measurements are in mm

NPS**Nickel Plated Copper Hand Swage/Ferrule****Nickel Plated
Copper**

METRIC

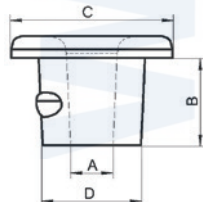


Size (D1)	A	B	C	D	L	Part Number	Std Pack
M1.5	4.28	6.22	2.13	4.25	10.00	NPSM15	100
M2	5.45	7.80	2.60	4.90	10.00	NPSM2	100
M2.5	6.80	10.15	3.50	6.90	13.00	NPSM25	100
M3.2	7.17	10.45	3.75	6.98	13.00	NPSM32	100
M4	9.15	14.00	4.80	9.50	18.00	NPSM4	20
M5	10.97	16.90	5.80	11.60	22.00	NPSM5	20
M6	13.00	20.40	6.75	14.00	28.00	NPSM6	20

All measurements are in mm

NGR**Nylon Grommet - Split****Nylon**

METRIC



Type	Colour	Hole size	Cable range	A	B	C	D	Part Number	Std Pack
Nylon	Black	11/32"	3.2 - 5.0 mm	4.20	8.00	13.00	9.00	NGRBLA	200
Nylon	Grey	11/32"	3.2 - 5.0 mm	4.20	8.00	13.00	9.00	NGRGRY	200

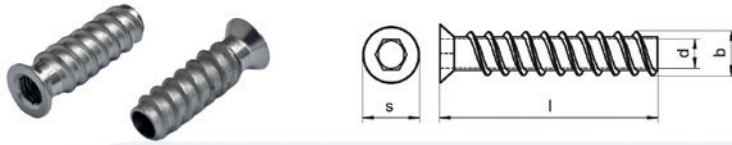
All measurements are in mm

A4

Countersunk Timber Insert

CTI**316**

METRIC



Size (d)	b	l	s	Thread	Part Number	Std Pack
M6	10.00	30.00	12.50	Right	CTIA4M6	10
M6	10.00	30.00	12.50	Left	CTIA4M6L	10

All measurements are in mm

A4

Cable Pivot Washer

CPW**316**

METRIC



Size Ø	A1	D	Part Number	Std Pack
M6	6.10	13.00	CPWA4M6	10
M8	8.20	13.00	CPWA4M8	10

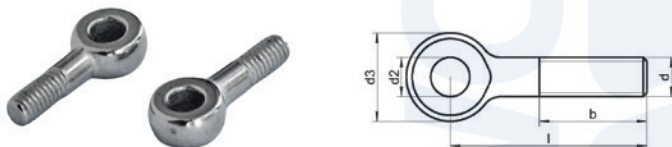
All measurements are in mm

A4

Mini Eye Bolt

MEB**316**

METRIC

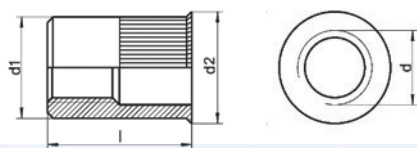


Size (d)	l	b	d2	d3	Part Number	Std Pack
M6	24.00	10.00	6.00	14.00	MEBA4M6X10	10
M6	38.00	25.00	6.00	14.00	MEBA4M6X25	10

All measurements are in mm

RNS

Rivet Nut - Small Flange

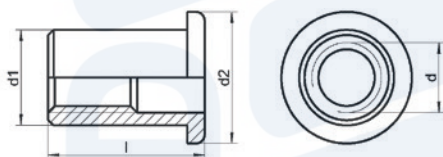
A2**304**

Size (d)	Thread	d1	d2	clamping range	l	Part Number	Std Pack
M5	Right	7.10	7.70	0.5-3.0mm	11.80	RNSA2M5	100
M6	Right	9.50	10.50	0.7-3.3mm	14.60	RNSA2M6	100
M6	Left	9.50	10.50	0.7-3.3mm	14.60	RNSA2M6L	100
M8	Right	10.60	11.50	0.9-3.7mm	16.00	RNSA2M8	100
M10	Right	14.20	15.30	1.0-3.6mm	17.00	RNSA2M10	100

All measurements are in mm

RNL

Rivet Nut - Large Flange

A2**304**

Size (d)	Thread	d1	d2	clamping range	l	Part Number	Std Pack
M5	Right	6.90	10.00	3.0-5.5mm	13.50	RNLA2M5	100
M6	Right	8.90	12.00	3.0-5.5mm	16.00	RNLA2M6	100
M6	Left	8.90	12.00	3.0-5.5mm	16.00	RNLA2M6L	100
M8	Right	10.90	15.00	3.0-5.5mm	18.50	RNLA2M8	100

All measurements are in mm

Did you know?

A Rivet Nut Installs blind in sheet metal, plastics and tubular materials

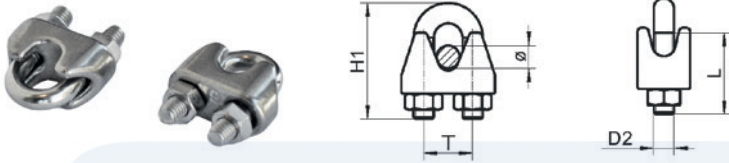
Can be used as a rivet to assemble two or more materials and as a nut for the attachment of a mating part with a screw. It Installs mechanically without deforming the parent material. Installs with inexpensive hand tools for field repair or consumer kit installation.

A4**316**

Wire Rope Grip

WRG

METRIC



Size (Ø)	D2	H1	L	T	Part Number	Std Pack
2mm	M3	17.00	11.00	7.00	WRGA42MM	10
3mm	M3	21.00	11.00	8.00	WRGA43MM	10
4mm	M4	23.00	12.00	10.00	WRGA44MM	10
5mm	M5	26.00	15.00	12.00	WRGA45MM	10
6mm	M6	32.00	18.00	14.00	WRGA46MM	5
8mm	M6	35.00	18.00	16.00	WRGA48MM	5
10mm	M8	44.00	22.00	19.00	WRGA410MM	5
13mm	M10	55.00	30.00	25.00	WRGA413MM	2
16mm	M14	75.00	35.00	27.00	WRGA416MM	2
19mm	M14	80.00	53.00	32.00	WRGA419MM	2

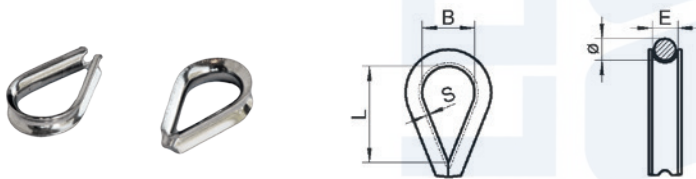
All measurements are in mm

A4**316**

Wire Rope Thimble

WRT

METRIC



Wire rope (Ø)	E	B	L	S	Part Number	Std Pack
2mm	2.00	7.00	10.00	1.00	WRTA4M2	100
2.5mm	2.50	8.00	14.00	1.00	WRTA4M25	100
3mm	3.00	10.00	17.00	1.00	WRTA4M3	100
4mm	4.00	11.00	18.00	1.00	WRTA4M4	50
5mm	5.60	13.00	20.00	1.20	WRTA4M5	20
6mm	6.50	15.00	25.00	1.20	WRTA4M6	20
8mm	9.00	18.00	33.00	1.50	WRTA4M8	10
10mm	11.00	23.00	41.00	2.00	WRTA4M10	10
12mm	14.00	27.00	48.00	2.00	WRTA4M12	5
14mm	15.00	34.00	53.00	2.50	WRTA4M14	5
16mm	17.00	36.00	57.00	3.00	WRTA4M16	5
18mm	19.00	40.00	67.00	3.00	WRTA4M18	5
20mm	22.00	45.00	75.00	4.00	WRTA4M20	5

All measurements are in mm

Did you know?

Stainless steel wire rope thimbles are for forming reinforced eyes in wire ropes

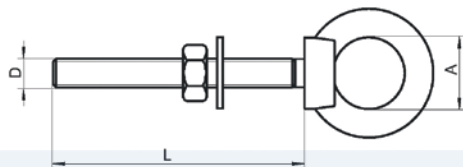
This will provide a longer lasting wear surface and help to support the wire rope eye. Simply loop the cable around the outer groove and secure with a ferrule or wire rope grip.

EBO

Eye Bolt With Nut and Washers

A2**304**

METRIC



Size (D)	L	A	Part Number	Std Pack
M6	40.00	13.00	EB0A2M6X40	10
M6	60.00	13.00	EB0A2M6X60	10
M6	80.00	13.00	EB0A2M6X80	10
M6	100.00	13.00	EB0A2M6X100	10
M8	60.00	17.00	EB0A2M8X60	10
M8	80.00	17.00	EB0A2M8X80	10
M8	100.00	17.00	EB0A2M8X100	10
M8	130.00	17.00	EB0A2M8X130	10
M10	60.00	21.00	EB0A2M10X60	5
M10	80.00	21.00	EB0A2M10X80	5
M10	100.00	21.00	EB0A2M10X100	5
M10	120.00	21.00	EB0A2M10X120	5
M10	150.00	21.00	EB0A2M10X150	5
M12	80.00	25.00	EB0A2M12X80	5
M12	100.00	25.00	EB0A2M12X100	5
M12	120.00	25.00	EB0A2M12X120	5
M12	150.00	25.00	EB0A2M12X150	5

All measurements are in mm

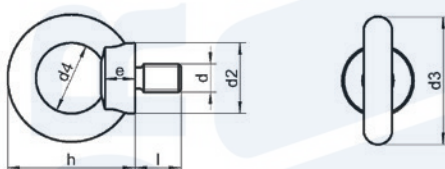
EBO

Eye Bolt - Collared

A4**316**

DIN 580

METRIC



Size (Ø)	d2	d3	d4	h	l	Part Number	Std Pack
M6	12.00	25.70	16.00	26.00	15.00	EB0A4M6	10
M8	15.00	31.50	20.00	30.00	18.00	EB0A4M8	5
M10	19.00	40.00	25.00	42.00	18.00	EB0A4M10	5
M12	23.50	48.00	30.00	52.00	22.00	EB0A4M12	2
M16	28.00	58.00	35.00	59.00	26.00	EB0A4M16	2
M20	33.00	70.00	35.00	71.00	30.00	EB0A4M20	1
M24	50.00	89.00	50.00	94.00	40.00	EB0A4M24	1

All measurements are in mm

A4

Eye Bolt - Collared

EBJ**316**

JIS B 1168

METRIC



Size (Ø)	A	B	C	D	H	L	Part Number	Std Pack
M6	25.00	15.00	5.00	6.00	28.00	13.00	EBJA4M6	10
M8	31.50	20.00	6.00	8.00	34.00	14.50	EBJA4M8	5
M10	39.50	25.00	7.00	10.00	41.00	18.00	EBJA4M10	5
M12	49.00	30.00	9.00	12.00	51.00	22.00	EBJA4M12	2
M16	58.00	34.00	12.00	16.00	59.00	26.00	EBJA4M16	2
M20	70.00	39.00	16.00	20.00	71.00	30.00	EBJA4M20	1
M24	90.00	50.00	20.00	24.00	90.00	38.00	EBJA4M24	1

All measurements are in mm

A4

Eye Nut - Collared

LEN**316**

DIN 582

METRIC



Size (Ø)	d2	d3	d4	h	e	Part Number	Std Pack
M6	20.00	36.00	20.00	36.00	8.50	LENA4M6	10
M8	20.00	36.00	20.00	36.00	8.50	LENA4M8	5
M10	25.00	45.00	25.00	45.00	10.00	LENA4M10	5
M12	30.00	54.00	30.00	53.00	11.00	LENA4M12	2
M16	35.00	63.00	35.00	63.00	13.00	LENA4M16	2
M20	40.00	72.00	40.00	71.00	16.00	LENA4M20	1
M24	50.00	85.00	50.00	84.00	19.00	LENA4M24	1

All measurements are in mm

LEJ

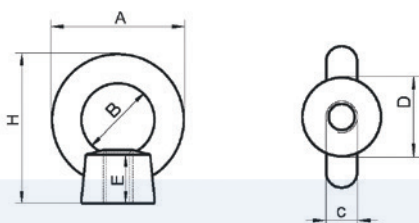
Eye Nut - Collared

JIS B 1169

METRIC

A4

316



Size (Ø)	D	B	C	H	E	A	Part Number	Std Pack
M6	14.00	16.00	5.00	30.00	12.00	32.60	LEJA4M6	10
M8	16.00	20.00	6.20	39.30	12.00	32.60	LEJA4M8	5
M10	20.00	25.00	8.00	48.00	15.00	41.00	LEJA4M10	5
M12	25.00	30.00	10.00	61.00	19.00	50.00	LEJA4M12	2
M16	32.00	35.00	12.50	72.00	23.00	60.00	LEJA4M16	2
M20	37.00	40.00	16.00	86.00	28.00	72.00	LEJA4M20	1
M24	44.00	50.00	20.00	111.00	38.00	90.00	LEJA4M24	1

All measurements are in mm

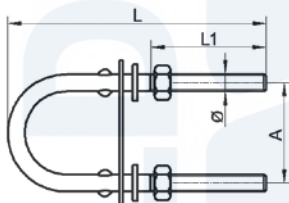
UBO

U Bolt With Nuts, Washers & Plate

METRIC

A2

304



Size (Ø)	A	L	L1	Part Number	Std Pack
M5	50.00	80.00	40.00	UB0A2M5X80	10
M6	50.00	90.00	40.00	UB0A2M6X90	10
M8	50.00	80.00	40.00	UB0A2M8X80	10
M8	50.00	100.00	50.00	UB0A2M8X100	10
M10	70.00	90.00	55.00	UB0A2M10X90	5
M10	70.00	130.00	55.00	UB0A2M10X130	5
M12	83.00	150.00	74.00	UB0A2M12X150	5

All measurements are in mm

Did you know?

U-bolts have primarily been used to support pipework, pipes through which fluids and gasses pass

As such, U-bolts were measured using pipe-work engineering speak. A U-bolt would be described by the size of pipe it was supporting. U-bolts are also used to hold ropes together.

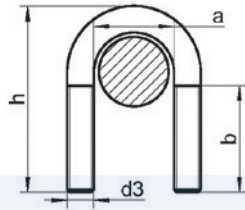
For example, a 40 Nominal Bore U-bolt would be asked for by pipe work engineers, and only they would know what that meant. The 40 nominal bore part bears little resemblance to the size and dimensions of the U-bolt. The nominal bore of a pipe is a measurement of the inside diameter of the pipe. Engineers are interested in this because they design a pipe by the amount of fluid / gas it can transport.

A4

U Bolt With Nuts

UBO**316**

METRIC



Size (Ø)	h	h-d3	To suit NB	a	b	Part Number	Std Pack
M10	77.00	67.00	15.00	22.00	40.00	UB0A4M10X67	5
M10	88.00	78.00	20.00	27.00	50.00	UB0A4M10X78	5
M10	96.00	86.00	25.00	35.00	50.00	UB0A4M10X86	5
M10	104.00	94.00	32.00	43.00	50.00	UB0A4M10X94	5
M10	110.00	100.00	40.00	49.00	50.00	UB0A4M10X100	5
M10	121.00	111.00	50.00	60.00	50.00	UB0A4M10X111	5
M12	139.00	127.00	65.00	76.00	50.00	UB0A4M12X127	2
M12	152.00	140.00	80.00	89.00	50.00	UB0A4M12X140	2
M12	164.00	152.00	90.00	102.00	50.00	UB0A4M12X152	2
M12	177.00	165.00	100.00	114.00	50.00	UB0A4M12X165	2

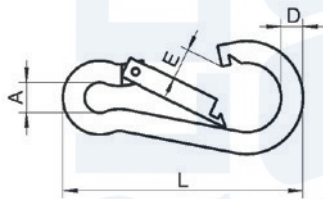
All measurements are in mm

A4

Spring Hook

SHO**316**

METRIC



Size (D)	L	A	E	Part Number	Std Pack
M3	30.00	5.00	6.00	SH0A4M3	10
M4	40.00	6.50	6.00	SH0A4M4	10
M5	50.00	8.00	7.00	SH0A4M5	10
M6	60.00	9.00	8.00	SH0A4M6	10
M7	70.00	10.00	9.00	SH0A4M7	10
M8	80.00	12.00	9.00	SH0A4M8	10
M10	100.00	15.00	12.00	SH0A4M10	5
M12	140.00	20.00	19.00	SH0A4M12	5

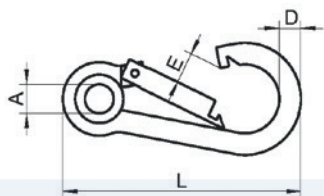
All measurements are in mm

SHE

Spring Hook With Eye

A4

316



Size (D)	L	A	E	Part Number	Std Pack
M5	50.00	6.50	7.00	SHEA4M5	10
M6	60.00	7.50	8.00	SHEA4M6	10
M7	70.00	9.00	8.00	SHEA4M7	10
M8	80.00	10.00	9.00	SHEA4M8	10
M10	100.00	13.00	12.00	SHEA4M10	5
M12	140.00	18.00	19.00	SHEA4M12	5

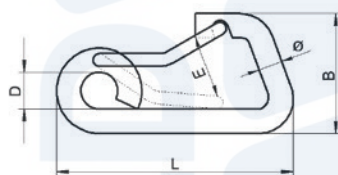
All measurements are in mm

SH2

Snap Hook - Asymmetric

A4

316



Size (Ø)	D	B	L	E	Part Number	Std Pack
M6	7.00	35.00	61.00	10.00	SH2A4M6	10
M8	11.00	48.00	81.00	13.00	SH2A4M8	10
M10	13.00	58.00	102.00	15.00	SH2A4M10	5
M12	16.00	70.00	122.00	21.00	SH2A4M12	5

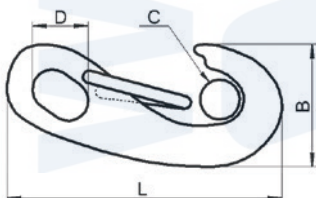
All measurements are in mm

SSH

Spring Snap Hook Cast

A4

316



L	B	C	D	Part Number	Std Pack
50	24.00	10.00	10.50	SSHA4M50	10
70	31.00	12.00	13.00	SSHA4M70	5
100	46.00	22.00	21.00	SSHA4M100	5

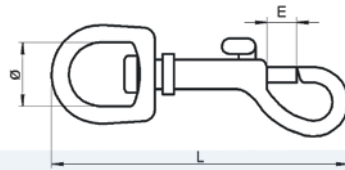
All measurements are in mm

A2

Swivel Snap Bolt

SSB**304**

METRIC



Size (Ø)	L	E	Part Number	Std Pack
10mm	65.00	7.00	SSBA210	5
13mm	90.00	11.00	SSBA213	5
16mm	92.00	12.00	SSBA216	5
19mm	94.00	12.00	SSBA219	5
25mm	101.00	16.00	SSBA225	5

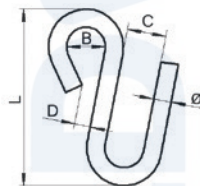
All measurements are in mm

A2

S Hook Long Arm

SH3**304**

METRIC



Size (Ø)	L	B	C	D	Part Number	Std Pack
M5	52.00	9.00	9.00	3.00	SH3A2M5	10
M6	64.00	10.00	10.00	5.00	SH3A2M6	10
M8	75.00	16.00	17.00	5.00	SH3A2M8	10
M9	84.00	18.00	19.00	7.00	SH3A2M9	10

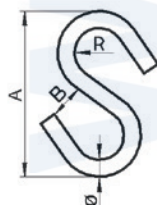
All measurements are in mm

A2

S Hook Symmetrical

SH4**304**

METRIC



Size (Ø)	A	B	R	Part Number	Std Pack
M5	51.00	10.00	5.00	SH4A2M5	10
M6	64.00	10.00	6.00	SH4A2M6	10
M8	82.00	13.00	8.00	SH4A2M8	10
M9	97.00	15.00	9.00	SH4A2M9	10

All measurements are in mm

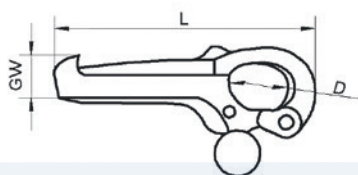
PHO

Pelican Hook

A4

316

METRIC



Size (GW)	L	D	Part Number	Std Pack
M6	75.00	18.50	PH0A4M6	5
M8	100.00	27.00	PH0A4M8	5
M10	144.00	35.00	PH0A4M10	5

All measurements are in mm

CSL

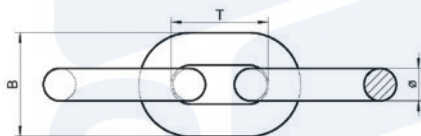
Chain - Short Link

A2

304

DIN 766

METRIC



Size (Ø)	B	T	Weight kg/m	Length m	Part Number	Std Pack
M2	8.00	12.00	0.12	50.00	CSLA2M2	1
M3	12.00	16.00	0.16	50.00	CSLA2M3	1
M4	13.60	16.00	0.32	25.00	CSLA2M4	1
M5	17.00	18.50	0.50	25.00	CSLA2M5	1
M6	20.40	18.50	0.75	25.00	CSLA2M6	1
M8	27.20	24.00	1.35	25.00	CSLA2M8	1

All measurements are in mm

CSL

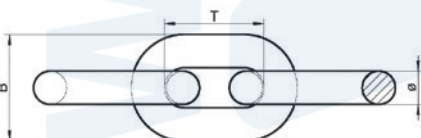
Chain - Short Link

A4

316

DIN 766

METRIC



Size (Ø)	B	T	Weight kg/m	Length m	Part Number	Std Pack
M2	8.00	12.00	0.12	50.00	CSLA4M2	1
M3	12.00	16.00	0.16	50.00	CSLA4M3	1
M4	13.60	16.00	0.32	25.00	CSLA4M4	1
M5	17.00	18.50	0.50	25.00	CSLA4M5	1
M6	20.40	18.50	0.75	25.00	CSLA4M6	1
M8	27.20	24.00	1.35	25.00	CSLA4M8	1

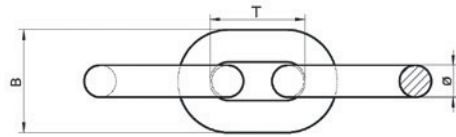
All measurements are in mm

A4

Chain - Medium Link

CML**316**

METRIC



Size (Ø)	B	T	Weight kg/m	Length m	Part Number	Std Pack
M4	16.00	18.70	0.30	25.00	CMLA4M4	1
M5	19.40	22.00	0.50	25.00	CMLA4M5	1
M6	23.60	25.70	0.77	25.00	CMLA4M6	1
M8	29.70	32.00	1.30	25.00	CMLA4M8	1
M10	36.30	38.90	2.05	10.00	CMLA4M10	1
M12	44.00	45.90	2.95	10.00	CMLA4M12	1

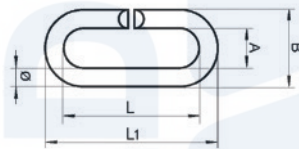
All measurements are in mm

A4

C Link

CLI**316**

METRIC



Size (Ø)	A	B	L	L1	Part Number	Std Pack
M5	8.00	17.50	20.00	30.00	CLIA4M5	10
M6	9.00	21.00	24.00	36.00	CLIA4M6	10
M8	12.00	28.00	32.00	48.00	CLIA4M8	5
M10	15.00	35.00	40.00	60.00	CLIA4M10	5
M12	18.00	42.00	48.00	72.00	CLIA4M12	2

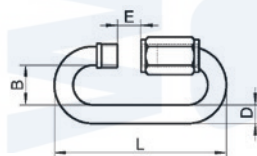
All measurements are in mm

A4

Quick Link

QLI**316**

METRIC

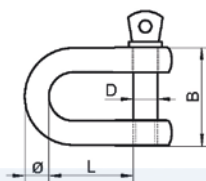


Size (D)	L	B	E	Part Number	Std Pack
M4	32.00	12.00	5.50	QLIA4M4	10
M5	39.00	13.00	6.50	QLIA4M5	10
M6	45.00	14.00	7.50	QLIA4M6	10
M8	58.00	17.00	10.00	QLIA4M8	5
M10	69.00	21.00	12.00	QLIA4M10	5

All measurements are in mm

DSH

D Shackle

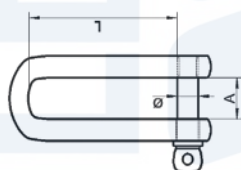
A4**316**

Size (Ø)	D	B	L	Part Number	Std Pack
M4	8.00	16.00	14.00	DSHA4M4	10
M5	10.00	20.00	14.50	DSHA4M5	10
M6	12.00	24.00	21.00	DSHA4M6	10
M7	14.00	24.00	23.50	DSHA4M7	5
M8	16.00	32.00	28.00	DSHA4M8	5
M10	20.00	40.00	36.00	DSHA4M10	5
M12	24.00	48.00	44.00	DSHA4M12	2
M13	26.00	52.00	46.50	DSHA4M13	2
M16	32.00	64.00	56.00	DSHA4M16	2
M19	35.00	76.00	65.50	DSHA4M19	1
M22	44.00	88.00	74.00	DSHA4M22	1

All measurements are in mm

DSL

D Shackle - Long

A4**316**

Size (Ø)	A	L	Part Number	Std Pack
M4	8.00	32.00	DSL4M4	10
M5	10.00	40.00	DSL4M5	10
M6	12.00	48.00	DSL4M6	10
M8	16.00	64.00	DSL4M8	5
M10	20.00	80.00	DSL4M10	5
M12	24.00	96.00	DSL4M12	2

All measurements are in mm

Did you know?

Long D-shackles are designed for application where a quick setup with long reach opening are required

They are designed to be secured by hand tensioning the pin. The Long D Shackle is stainless steel and is used in the fishing, education, sports, building and heavy industrial sectors.

A4

D Shackle - Captive Pin

DSC**316**

METRIC



Size (Ø)	A	B	L	Part Number	Std Pack
M4	9.00	18.00	15.00	DSCA4M4	10
M5	10.00	20.00	16.50	DSCA4M5	10
M6	12.00	24.00	21.00	DSCA4M6	10
M8	16.00	32.00	28.00	DSCA4M8	5
M10	20.00	40.00	34.00	DSCA4M10	5
M12	24.00	48.00	36.00	DSCA4M12	2

All measurements are in mm

A4

D Shackle - Wide Mouth

DSW**316**

METRIC



Size (Ø)	A	B	Part Number	Std Pack
M5	20.00	27.50	DSWA4M5	10
M6	24.00	33.00	DSWA4M6	10
M8	32.00	44.00	DSWA4M8	5
M10	40.00	55.00	DSWA4M10	5
M12	48.00	66.00	DSWA4M12	2

All measurements are in mm

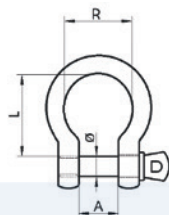
Did you know?

Wide Body Shackles are made with a larger mouth compared to standard shackle

Using a wide body shackle over a standard shackle gives the user a larger working area for the shackle to fit over/attach to.

BSH

Bow Shackle

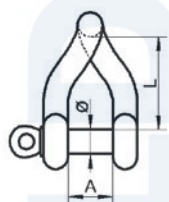
A4**316**

Size (Ø)	A	R	L	Part Number	Std Pack
M4	8.000	13.000	20.000	BSHA4M4	10
M5	10.800	17.000	23.000	BSHA4M5	10
M6	13.000	21.000	31.000	BSHA4M6	10
M8	17.500	28.000	36.500	BSHA4M8	5
M10	21.500	35.500	44.000	BSHA4M10	5
M12	27.000	41.000	52.500	BSHA4M12	2
M16	32.000	54.000	73.500	BSHA4M16	2
M19	35.600	64.400	85.000	BSHA4M19	1
M22	41.000	74.000	94.000	BSHA4M22	1

All measurements are in mm

TSH

Twist Shackle

A4**316**

Size (Ø)	A	L	Part Number	Std Pack
M4	8.00	23.00	TSHA4M4	10
M5	10.00	27.00	TSHA4M5	10
M6	12.00	30.00	TSHA4M6	10
M8	16.00	42.00	TSHA4M8	5
M10	20.00	55.00	TSHA4M10	5

All measurements are in mm

Did you know?

Twisted shackles are a twisted-U shaped bar secured by a bolt at the opening

These are used as a primary link for connecting gears in various rigging systems, including industrial rigging, ships and boats. Different types of shackles are manufactured for diverse applications and in various materials.

A2

Strap Shackle

SSH**304**

METRIC



Size (Ø)	A	L	Part Number	Std Pack
M5	12.50	20.00	SSHA2M5	10
M6	15.00	24.00	SSHA2M6	10
M8	18.00	44.00	SSHA2M8	10

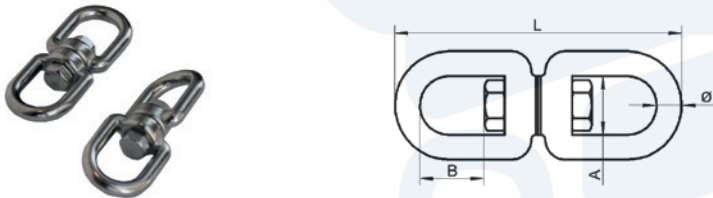
All measurements are in mm

A4

Swivel - Eye / Eye

SEE**316**

METRIC



Size (Ø)	L	B	A	Part Number	Std Pack
M5	60.00	13.00	13.00	SEEA4M5	10
M6	65.00	15.00	15.00	SEEA4M6	10
M8	90.00	22.00	20.00	SEEA4M8	5
M10	110.00	26.00	23.00	SEEA4M10	5

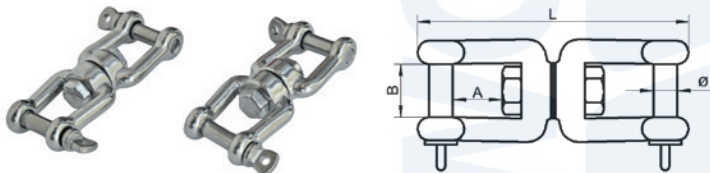
All measurements are in mm

A4

Swivel - Jaw / Jaw

SJJ**316**

METRIC

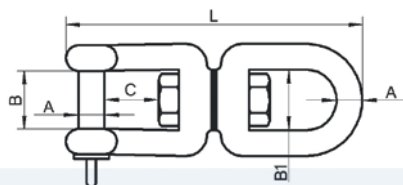


Size (Ø)	L	B	A	Part Number	Std Pack
M5	60.00	10.00	11.00	SJJA4M5	10
M6	66.00	12.00	11.00	SJJA4M6	10
M8	94.00	16.00	16.00	SJJA4M8	5
M10	118.00	20.00	22.00	SJJA4M10	5

All measurements are in mm

SJE

Swivel - Jaw / Eye

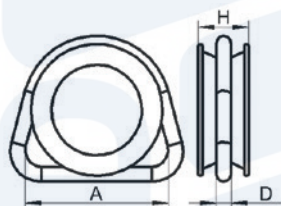
A4**316**

Size (A)	L	B	C	B1	Part Number	Std Pack
M5	60.00	10.00	11.00	13.00	SJEA4M5	10
M6	66.00	12.00	11.00	15.00	SJEA4M6	10
M8	94.00	16.00	16.00	20.00	SJEA4M8	5
M10	118.00	20.00	22.00	24.00	SJEA4M10	5

All measurements are in mm

DRT

D Ring Thimble

A4**316**

Size (D)	A	H	Part Number	Std Pack
M6	30.00	5.10	DRTA4M6	10
M8	50.00	7.80	DRTA4M8	5
M10	65.00	21.00	DRTA4M10	5

All measurements are in mm

Did you know?

Our Swivels are ideal for various marine and industrial rigging applications

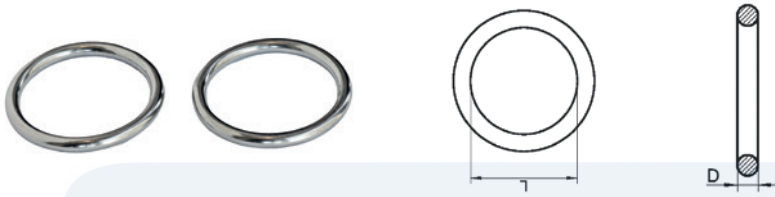
They are made from grade 316 stainless steel for maximum corrosion resistance and durability.

D-Ring Thimbles are generally sewn into the webbing of a shade sail to create a secure fixing point between the sail and an anchor point

They have a floating rolled ring inside a welded thimble. D-Rings are made from high quality marine grade stainless steel and are specifically designed for general purpose, marine and shade sail applications and for use with seatbelt webbing.

A4**Round Ring - Welded****RRI****316**

METRIC



Size (D)	L	Part Number	Std Pack
M3	25.00	RRIA4M3X25	20
M4	20.00	RRIA4M4X20	20
M4	25.00	RRIA4M4X25	20
M4	30.00	RRIA4M4X30	20
M4	40.00	RRIA4M4X40	20
M5	20.00	RRIA4M5X20	10
M5	25.00	RRIA4M5X25	10
M5	30.00	RRIA4M5X30	10
M5	40.00	RRIA4M5X40	10
M5	50.00	RRIA4M5X50	10
M6	25.00	RRIA4M6X25	10
M6	30.00	RRIA4M6X30	10
M6	40.00	RRIA4M6X40	10
M6	50.00	RRIA4M6X50	10
M8	40.00	RRIA4M8X40	5
M8	50.00	RRIA4M8X50	5
M8	65.00	RRIA4M8X65	5
M8	75.00	RRIA4M8X75	5
M10	40.00	RRIA4M10X40	5
M10	50.00	RRIA4M10X50	5
M10	75.00	RRIA4M10X75	5
M10	100.00	RRIA4M10X100	5
M12	75.00	RRIA4M12X75	5
M12	100.00	RRIA4M12X100	5

All measurements are in mm

A4**D Ring - Welded****DRI****316**

METRIC



Size (D)	L	H	Part Number	Std Pack
M3	25.00	23.00	DRIA4M3X25	20
M4	25.00	23.00	DRIA4M4X25	20
M5	25.00	23.00	DRIA4M5X25	10
M5	40.00	36.00	DRIA4M5X40	10
M5	50.00	47.00	DRIA4M5X50	10
M6	25.00	23.00	DRIA4M6X25	10
M6	30.00	26.00	DRIA4M6X30	10
M6	40.00	36.00	DRIA4M6X40	10
M6	50.00	47.00	DRIA4M6X50	10

All measurements are in mm

TRI

Triangle Ring - Welded

A4

316

METRIC



Size (D)	A	Part Number	Std Pack
M5	30.00	TRIA4M5X30	10
M6	40.00	TRIA4M6X40	10
M8	50.00	TRIA4M8X50	5

All measurements are in mm

HCW

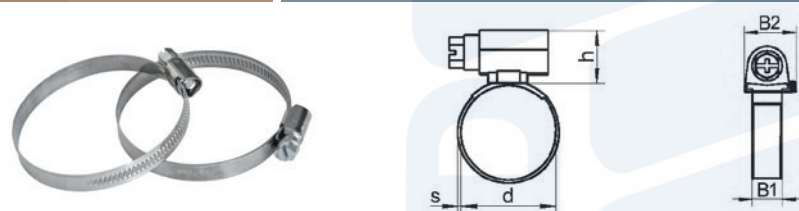
Hose Clamp - Worm Drive

A2

304

DIN 3017

METRIC



Universal Size	d	B1	B2 max.	Part Number	Std Pack
000	10-16mm	9mm	14mm	HCWA2000	10
00	12-22mm	9mm	14mm	HCWA200	10
0	16-27mm	9mm	14mm	HCWA20	10
1A	20-32mm	9mm	14mm	HCWA21A	10
1	25-40mm	9mm	14mm	HCWA21	10
1X	30-45mm	9mm	14mm	HCWA21X	10
2A	35-50mm	9mm	14mm	HCWA22A	10
2	40-60mm	9mm	14mm	HCWA22	10
3	50-70mm	9mm	14mm	HCWA23	10
3A	60-80mm	12mm	20mm	HCWA23A	5
4	70-90mm	12mm	20mm	HCWA24	5
4A	80-100mm	12mm	20mm	HCWA24A	5
5	90-110mm	12mm	20mm	HCWA25	5
5A	100-120mm	12mm	20mm	HCWA25A	5
6	110-130mm	12mm	20mm	HCWA26	5
6A	120-140mm	12mm	20mm	HCWA26A	5

All measurements are in mm

Did you know?

Hose clamps are typically limited to moderate pressures, such as those found in automotive and home applications

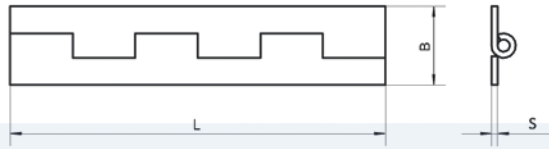
At high pressures, especially with large hose sizes, the clamp would have to be unwieldy to be able to withstand the forces expanding it without allowing the hose to slide off the barb or a leak to form. For these high-pressure applications, compression fittings, thick crimp fittings, or other designs are normally used.

A2**304**

Piano Hinge - Undrilled

PHI

METRIC



B	L	S	Part Number	Std Pack
M25	1800.00	1.20	PHIA2M25	1
M32	1800.00	1.20	PHIA2M32	1
M38	1800.00	1.20	PHIA2M38	1
M50	1800.00	1.50	PHIA2M50	1

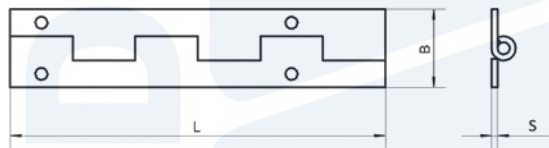
All measurements are in mm

A2**304**

Piano Hinge - Drilled

PHI

METRIC



B	L	S	Part Number	Std Pack
M25	1800.00	1.20	PHIA2M25D	1
M32	1800.00	1.20	PHIA2M32D	1
M38	1800.00	1.20	PHIA2M38D	1
M50	1800.00	1.50	PHIA2M50D	1

All measurements are in mm

Did you know?

Piano Hinges are also known as continuous hinges

Piano hinges are generally manufactured in long lengths, which is advantageous for providing support along the entire length of the rotational device the hinge supports, or for simply stocking a desired quantity of hinge locally, that can be pulled from stock, cut-to-length, and installed piecemeal as needed. Piano hinges are usually simple by design- flat, straight, and symmetric.

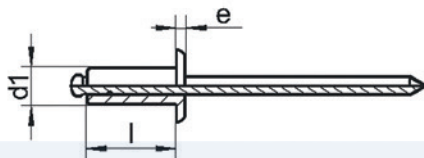
RIV

Blind Rivets

A2

304

METRIC



Type	d1	l	e	Grip Range mm	Part Number	Std Pack
4-2	3.20	6.30	2.00	1.6 - 3.2	RIVA242	1000
4-3	3.20	7.90	2.00	3.2 - 4.8	RIVA243	1000
4-4	3.20	9.50	2.00	4.8 - 6.4	RIVA244	1000
4-5	3.20	11.10	2.00	6.4 - 7.9	RIVA245	1000
4-6	3.20	12.70	2.00	7.9 - 9.5	RIVA246	1000
4-8	3.20	16.40	2.00	9.5 - 12.7	RIVA248	1000
5-2	4.00	7.10	2.50	1.6 - 3.2	RIVA252	1000
5-3	4.00	8.70	2.50	3.2 - 4.8	RIVA253	1000
5-4	4.00	10.30	2.50	4.8 - 6.4	RIVA254	1000
5-5	4.00	11.90	2.50	6.4 - 7.9	RIVA255	1000
5-6	4.00	13.50	2.50	6.4 - 9.5	RIVA256	1000
5-8	4.00	17.10	2.50	9.5 - 12.7	RIVA258	500
6-2	4.80	7.90	2.90	1.6 - 3.2	RIVA262	500
6-3	4.80	9.50	2.90	3.2 - 4.8	RIVA263	500
6-4	4.80	11.00	2.90	4.8 - 6.4	RIVA264	500
6-5	4.80	12.60	2.90	5.6 - 7.9	RIVA265	500
6-6	4.80	14.20	2.90	6.3 - 9.5	RIVA266	500
6-8	4.80	17.90	2.90	9.5 - 12.7	RIVA268	500
6-10	4.80	21.10	2.90	12.7 - 15.9	RIVA2610	500
6-12	4.80	24.20	2.90	15.9 - 19.1	RIVA2612	250

All measurements are in mm

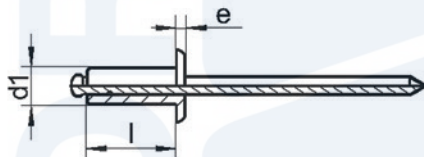
RIV

Blind Rivets

A4

316

METRIC



Type	d1	l	e	Grip Range mm	Part Number	Std Pack
4-2	3.20	6.30	2.00	1.6 - 3.2	RIVA442	1000
4-3	3.20	7.90	2.00	3.2 - 4.8	RIVA443	1000
4-4	3.20	9.50	2.00	4.8 - 6.4	RIVA444	1000
4-5	3.20	11.10	2.00	6.4 - 7.9	RIVA445	1000
4-6	3.20	12.70	2.00	7.9 - 9.5	RIVA446	1000
4-8	3.20	16.40	2.00	9.5 - 12.7	RIVA448	1000
5-2	4.00	7.10	2.50	1.6 - 3.2	RIVA452	1000
5-3	4.00	8.70	2.50	3.2 - 4.8	RIVA453	1000
5-4	4.00	10.30	2.50	4.8 - 6.4	RIVA454	1000
5-5	4.00	11.90	2.50	6.4 - 7.9	RIVA455	1000
5-6	4.00	13.50	2.50	6.4 - 9.5	RIVA456	1000
5-8	4.00	17.10	2.50	9.5 - 12.7	RIVA458	500
6-2	4.80	7.90	2.90	1.6 - 3.2	RIVA462	500
6-3	4.80	9.50	2.90	3.2 - 4.8	RIVA463	500
6-4	4.80	11.00	2.90	4.8 - 6.4	RIVA464	500
6-5	4.80	12.60	2.90	5.6 - 7.9	RIVA465	500
6-6	4.80	14.20	2.90	6.3 - 9.5	RIVA466	500
6-8	4.80	17.90	2.90	9.5 - 12.7	RIVA468	500
6-10	4.80	21.10	2.90	12.7 - 15.9	RIVA4610	500
6-12	4.80	24.20	2.90	15.9 - 19.1	RIVA4612	250

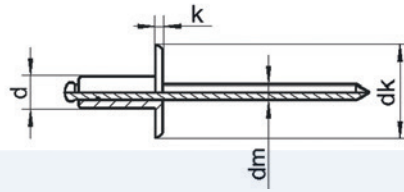
All measurements are in mm

A2**304**

Large Flange Rivets

RIL

METRIC



Type	d	dk min.	k	dm	Grip Range mm	Part Number	Std Pack
4-2	3.20	8.80	1.60	2.00	1.6 - 3.2	RILA242	1000
4-3	3.20	8.80	1.60	2.00	3.2 - 4.8	RILA243	1000
4-4	3.20	8.80	1.60	2.00	4.8 - 6.4	RILA244	1000
4-6	3.20	8.80	1.60	2.00	6.4 - 7.9	RILA246	1000
4-8	3.20	8.80	1.60	2.00	7.9 - 9.5	RILA248	1000
5-2	4.00	11.00	1.90	2.50	1.6 - 3.2	RILA252	1000
5-3	4.00	11.00	1.90	2.50	3.2 - 4.8	RILA253	1000
5-4	4.00	11.00	1.90	2.50	4.8 - 6.4	RILA254	1000
5-6	4.00	11.00	1.90	2.50	6.4 - 7.9	RILA256	1000
5-8	4.00	11.00	1.90	2.50	6.4 - 9.5	RILA258	500
6-2	4.80	13.00	2.10	2.90	1.6 - 3.2	RILA262	500
6-3	4.80	13.00	2.10	2.90	3.2 - 4.8	RILA263	500
6-4	4.80	13.00	2.10	2.90	4.8 - 6.4	RILA264	500
6-6	4.80	13.00	2.10	2.90	6.3 - 9.5	RILA266	500
6-8	4.80	13.00	2.10	2.90	9.5 - 12.7	RILA268	500
6-10	4.80	13.00	2.10	2.90	12.7 - 15.9	RILA2610	500
6-12	4.80	13.00	2.10	2.90	15.9 - 19.1	RILA2612	250

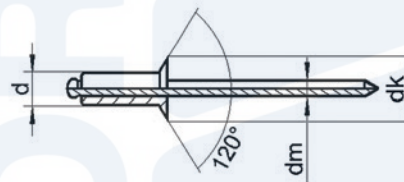
All measurements are in mm

A2**304**

Countersunk Rivets

RIC

METRIC



Type	d	dk min.	dm	Grip Range mm	Part Number	Std Pack
4-2	3.20	5.60	2.00	1.6 - 3.2	RICA242	1000
4-3	3.20	5.60	2.00	3.2 - 4.8	RICA243	1000
4-4	3.20	5.60	2.00	4.8 - 6.4	RICA244	1000
5-2	4.00	7.00	2.50	1.6 - 3.2	RICA252	1000
5-3	4.00	7.00	2.50	3.2 - 4.8	RICA253	1000
5-4	4.00	7.00	2.50	4.8 - 6.4	RICA254	1000
6-2	4.80	8.50	2.90	1.6 - 3.2	RICA262	500
6-3	4.80	8.50	2.90	3.2 - 4.8	RICA263	500
6-4	4.80	8.50	2.90	4.8 - 6.4	RICA264	500
6-6	4.80	8.50	2.90	7.9 - 9.5	RICA266	500
6-8	4.80	8.50	2.90	9.5 - 12.7	RICA268	500

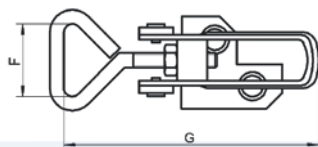
All measurements are in mm

TLA

Toggle Latch

A2

304



Size	G	F	Part Number	Std Pack
Small	78-87	18.30	TLAA2IW1	1
Medium	110-120	23.00	TLAA2IW2	1
Large	155 - 165	35.90	TLAA2IW3	1

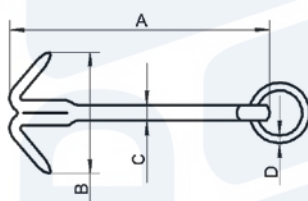
All measurements are in mm

AHO

Anchor Hooks

A4

316



A	B	C	D	Part Number	Std Pack
205	160.00	13.00	6.00	AH0A4205	1
220	245.00	14.00	8.00	AH0A4220	1

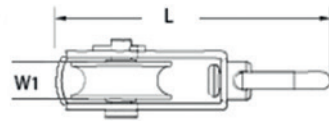
All measurements are in mm

A2**304**

Mame Block - Single Nylon Sheave

MBL

METRIC



Size	W1	L	BL	Rope	Part Number	Std Pack
M25	8.00	86.00	1,500kg	Up to 6mm	MBLA225NS	1
M32	9.00	99.00	1,700kg	Up to 9mm	MBLA232NS	1
M50	12.00	131.00	2,800kg	Up to 12mm	MBLA250NS	1

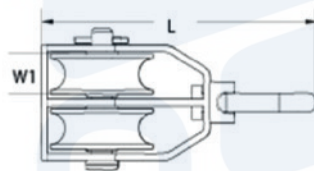
All measurements are in mm

A2**304**

Mame Block - Double Nylon Sheave

MBL

METRIC



Size	W1	L	BL	Rope	Part Number	Std Pack
M25	8.00	80.00	1,500kg	Up to 6mm	MBLA225ND	1
M32	9.00	95.00	1,500kg	Up to 9mm	MBLA232ND	1
M50	13.00	128.00	2,500kg	Up to 12mm	MBLA250ND	1

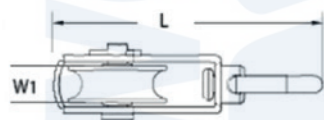
All measurements are in mm

A2**304**

Mame Block - Single Stainless Sheave

MBL

METRIC



Size	W1	L	BL	Rope	Part Number	Std Pack
M25	10.00	86.00	1,500kg	Up to 6mm	MBLA225SS	1
M32	12.00	99.00	1,800kg	Up to 9mm	MBLA232SS	1
M50	13.00	131.00	3,500kg	Up to 12mm	MBLA250SS	1

All measurements are in mm

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TECHNICAL INFORMATION



Common Fasteners



Hex bolts are used in machinery and construction. Can be used with a nut, or in a tapped hole. Fully threaded hex bolts are also known as **Set Screws/Bolts**.



Batten screws have large threads and a smooth shank for pulling two pieces of material together. They can be used in wood and other soft materials.



Sheet metal screws have sharp points and threads, and are designed to be driven directly into sheet metal. They can also be used in softer materials like plastic, fiberglass, or wood.



Machine screws are fully threaded for use with a nut or in a tapped hole. Can also be known as a **Metal Thread Screw**.



Socket screws are machine screws with an internal hex socket (Allen) drive. Longer lengths may have a shank.



Hex Coach Screws, are large wood screws with hex heads. Typically used for wood construction and landscaping.



Cup head Square neck bolts have smooth, domed heads with a square section underneath that pulls into the material to prevent spinning during installation.



Nuts are used to fasten machine threaded fasteners in through-hole applications. **Lock nuts** help prevent loosening.

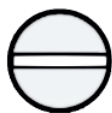


Washers spread the load over a greater surface area when tightening a bolt, screw or nut. **Lock washers** help preventing loosening.

Drive Types



Phillips



Slotted



Pozidriv



Square



Combo



*Hex socket
(Allen)*



Phillips

Phillips and **Slotted** drives are common in screws, but prone to cam-out (stripping). **Combo** drives, that can be used with either driver, are available for many fastener types. **Posidriv** are similar to Phillips, but less prone to cam-out. **Hex socket (Allen)** drives are compact and easy to drive, but prone to cam-out. **Torx** and **Square** drive are resistant to cam-out and can be installed single-handed.

Head Styles



Hex heads are typically used with larger bolt and screws.



Round heads are tall domed heads, used primarily for a decorative purposes.



Pan heads have a slightly domed head that sits above the surface.



Socket heads are narrow with a socket drive, and knurled or smooth sides.



Countersunk heads are installed in a countersunk hole for a fl at surface.



Button heads feature a medium dome. Typically used with hex socket drive.

Thread Count And Thread Pitch

Machine threaded fasteners specify a thread density in Threads Per Inch (US) or as a Thread Pitch in mm(Metric).

For a given diameter, a fastener may be available in coarse (standard), fi ne and sometimes super fi ne thread.

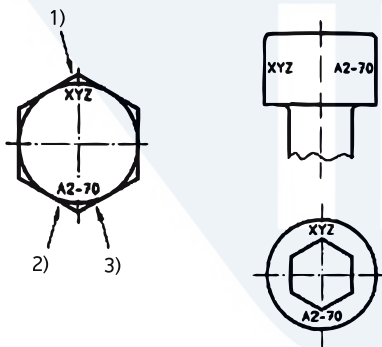
Thread guide

Size			Pitch (mm)		Threads Per Inch (TPI)		
			Coarse	Fine	UNC	UNF	BSW
M1.6		#0	0.35			80	
M2		#1	0.4			72	
		#2			56	64	
M2.5		#3	0.45		48	56	
		#4			40	48	
M3	1/8"	#5	0.5		40	44	40
M3.5		#6	0.6		32	40	
M4		#8	0.7		32	36	
M5	3/16"	#10	0.8		24	32	24
		#12			24	28	
M6	1/4"		1		20	28	20
M8	5/16"		1.25	1	18	24	18
M10	3/8"		1.5	1.25	16	24	16
	7/16"				14	20	14
M12	1/2"		1.75	1.5	13	20	12
M14	9/16"		2	1.5	12	18	12
M16	5/8"		2	1.5	11	18	11
M18			2.5	1.5			
M20	3/4"		2.5	1.5	10	16	10
M22	7/8"		2.5	1.5	3	14	9
M24	1"		3	2	8	12(14)	8
M27	1 1/8"		3	2	7	12	7
M30	1 1/4"		3.5	2	7	12	7
M33	1 3/8"		3.5	2	6	12	6
M36	1 1/2"		4	3	6	12	6
M39	1 5/8"		4	3			5
M42			4.5				
M45	1 3/4"		4.5		5		5
M48	1 7/8"		5				

Marking of Stainless Steel Screws and Nuts

The marking of stainless screws and nuts must contain the steel group, strength class and manufacturer's sign.

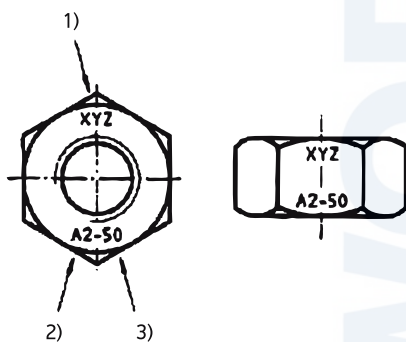
Marking of screws according to DIN ISO 3506-1



Hexagonal screws and socket cap screws with hexagonal socket as of an M5 nominal diameter should be clearly marked according the marking system. Where at all possible, the marking should be placed on the screw head.

- 1) Manufacturer's identification mark
- 2) Steel grade
- 3) Property class

Marking of screws according to DIN ISO 3506-2



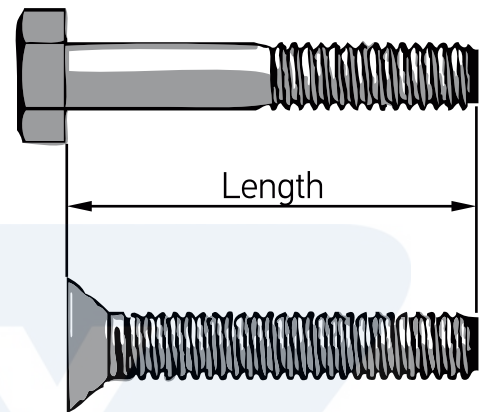
Nuts with a thread nominal diameter as of 5 mm should be clearly marked according the following marking system. Marking on just one bearing surface is permitted and may only be used if recessed, Marking on the spanner flats is also possible.

- 1) Manufacturer's identification mark
- 2) Steel grade
- 3) Property class

Measuring Fasteners

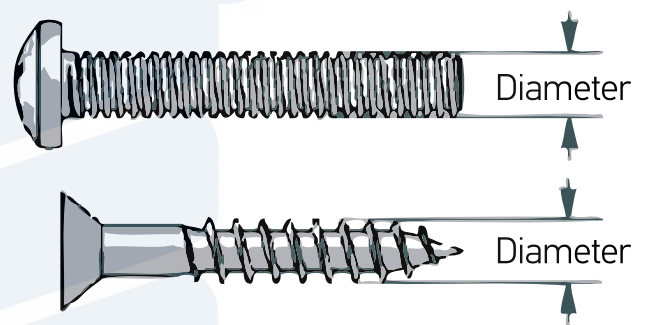
Fastener length is usually measured from where the material is to be to the end of the fastener.

Countersunk fasteners are measured overall and non-countersunk fasteners are measured from under the head.



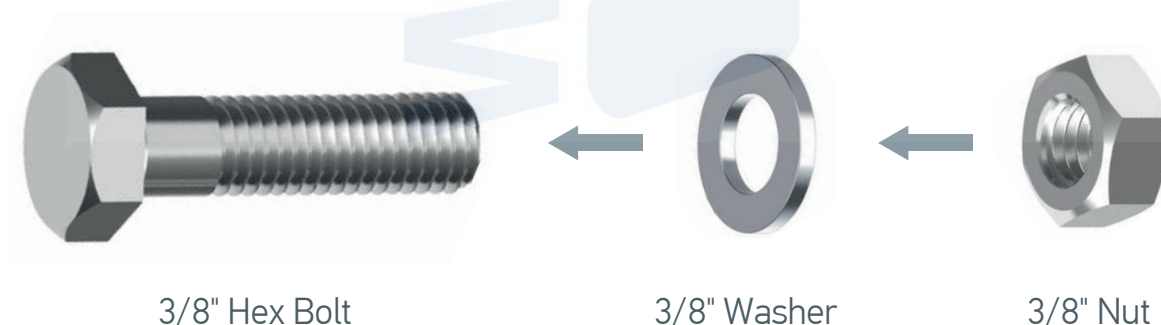
Measuring Diameters

For most types of fasteners, the diameter is measured on the outside of the threads.



Nut And Washer Sizes

Nut and washer sizes indicate **the screw or bolt they fit**. For example:



3/8" Hex Bolt

3/8" Washer

3/8" Nut

Self Tapping & Self Drilling Gauge/mm Conversion

Self tapping & self drilling gauge to mm conversion chart										
GAUGE	4	6	7	8	10	12	14	16	18	20
SIZE (MM)	2.9	3.5	3.9	4.2	4.8	5.5	6.3	7	7.7	8.4

Fastener Materials and Coatings

Alloy steel is highly hardened and usually black oxide and/or oil coated, offering little corrosion resistance.

Brass and **bronze** are copper alloys with good corrosion resistance. More expensive than steel, these materials are typically used for decorative applications.

Zinc Plated steel is shiny and typically 3 microns thick, where you only need superficial protection, indoors in a dry climate (and want the aesthetic value) go for zinc plating.

Chrome and **nickel plated steel** are smooth and polished for appearance. The plating offers moderate corrosion resistance.

Stainless steel offers good corrosion resistance, making it suitable for outdoor and marine applications.

Hot-dipped galvanised steel has a thicker zinc coating for better corrosion resistance, making it suitable for outdoor use. Because of the thick plating 50 microns, only galvanised nuts and washers will fit galvanised bolts.

Stainless Steel Properties

What Is A2-70 Stainless Steel?

DIN/ISO A2 Stainless Steel is a corrosion resistant steel; it is also known as ASTM-304. A2 / ASTM-304 is an 18/8 Stainless Steel: this designates a metallurgical content of 18% chromium & 8% nickel. A bolt marked A2-70 is a 304 stainless steel bolt with a 700 n/mm² tensile strength. The 70 representing the tensile strength divided by 10. 50 & 80 Grades are also available but are not all that common.

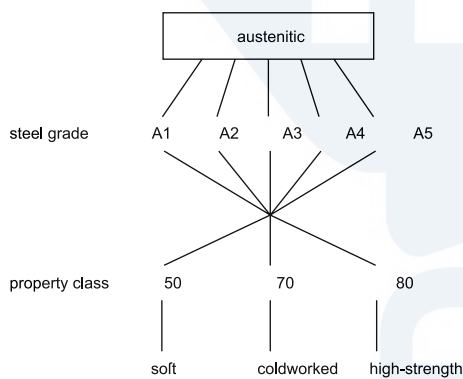
A2 / 304 Stainless Steel is what is known as an austenitic stainless steel: it is (mostly) non-magnetic though some residual magnetism can be introduced when the material is cold worked.

A2 / 304 Stainless Steel is one of the most highly corrosion-resistant materials available to the designer and engineer.

Grading of Stainless Steel Fasteners

Labelling system for grades of stainless steels and their strength classes

Stainless steels divide into three groups of steels — austenitic, ferritic and martensitic. Austenitic steel is by far the commonest and offers the greatest scope for use. The steel groups and strength classes are designated by a four-digit sequence of letters and numbers as shown in the following example. DIN EN ISO 3506 governs screws and nuts made from stainless steel.



Example: A2 - 80

A = austenitic steel

2 = type of alloy within group A

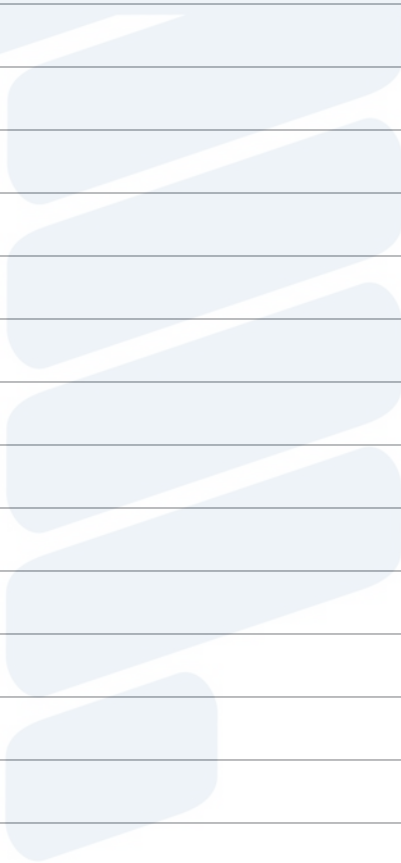
80 = tensile strength of at least 800 N/mm², cold work hardened

Common stainless steels and their chemical composition

	Material designation	Material no.	C %	Si ≤%	Mn ≤%	Cr %	Mo %	Ni %	Altri %
A2	X 5 Cr Ni 1810	1.4301	≤0.07	1.0	2.0	17.5 to 19.5	-	8.0 to 10.5	-
	X 2 Cr Ni 1811	1.4306	≤0.03	1.0	2.0	18.9 to 20.0	-	10.0 to 12.0	-
	X 8 Cr Ni 19/10	1.4303	≤0.07	1.0	2.0	17.0 to 19.0	-	11.0 to 13.0	-
A3	X 6 Cr Ni Ti 1811	1.4541	≤0.10	1.0	2.0	17.0 to 19.0	-	9.0 to 12.0	Ti ≥ 5 X % C
A4	X 5 Cr Ni Mo 1712	1.4401	≤0.07	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0	-
	X 5 Cr Ni Mo 1712	1.4401	≤0.03	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.0 to 13.0	-
A5	X 6 Cr Ni Mo Ti 1712	1.4541	≤0.10	1.0	2.0	16.5 to 18.5	2.0 to 2.5	10.5 to 13.5	Ti ≥ 5 X % C

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